



## Industrial Intelligent Networking & Embedded Platforms



- Industrial Intelligent Network Management System
- Industrial PoE / PoE Plus Ethernet Switch
- Industrial L2 / L3 Rackmount / Rail Ethernet Switch
- Industrial IP 67/68 Ethernet Switch
- Industrial Wireless Outdoor AP
- Industrial Networking Embedded Platform
- Industrial Ethernet / PoE / Serial Boards
- Industrial Intelligent Ethernet IO
- Industrial Media Converter
- Industrial Serial Device Server

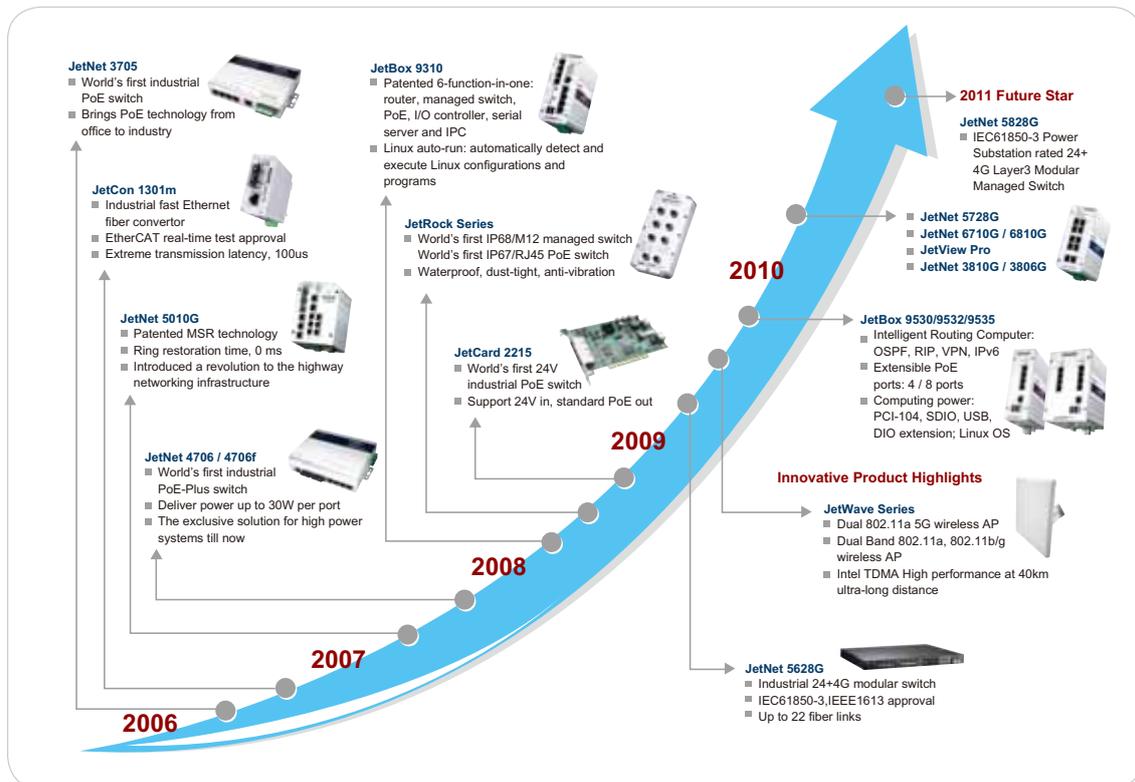
# Innovation & Value Creation



Korenix, the market leading brand in industrial networking and computing solutions has an extensive track record in providing innovative, market-oriented, value focused solutions to the industrial market.

## Innovation Map and Major Awards

A brief look at Korenix's track record reveals widespread recognition and awards, including COMPUTEX Best Choice Award in Year 2007, 2008, and 2009, IF Design Award 2009, Outstanding IT Products Award 2008, PRODUCT OF THE YEAR 2007 from Control Engineering, and Golden Penguin Award 2008. In 2009, Korenix JetBox is awarded Taiwan Leading Product Sponsorship by the Taiwan Ministry of Economy. Korenix has also won the reputation of Industrial PoE leader through its innovative JetPoE series. Our reputation as market leader is further supported by our complete industrial networking and embedded solutions ranging from Layer 3 switches, Wireless, IP 67 / 68 switches, network embedded computers, PoE interface card, and IO products.



Korenix's product development is ongoing. With Korenix and our partners, you are not purchasing a product but an innovative, value added solution.

## Patent Technologies

Korenix reaps rewards from teamwork and exercise of creativity in an environment that encourages professional growth and rewards performance. Through these efforts we achieved many outstanding awards and have secured many patents. These patents are below:

### 2006

- Rapid Super Ring
- Dual Homing
- Dual Homing II
- Tracked Switch Casing Machinery

### 2007

- Multiple Super Ring with MultiRing, TrunkRing, AnyRing
- Seamless Ring Restoration with ZERO Restoration Time
- Rapid Dual Homing II
- Waterproof Switch Casing Machinery

### 2008

- 6-in-1 Communication Computer
- Encrypted auto-run customization setting for the devices
- Monitoring and auto-recovery for applications

### 2009

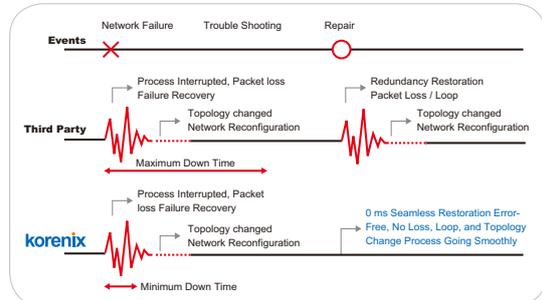
- 24V to 48V PoE Boost Technology
- Fast Recovery Mechanism for Trunk Ring
- A Fast Redundant Path Moving Mechanism for Network Coupling
- Initial Setup Method for Ring Network, Broken Link Redundancy Procedure and Restoration Method for Reconnected Broken Link
- Ring Network Coupling and its Redundant Procedure
- Power over Ethernet System Having Hi-Pot Isolation and Automatic Output (pending)
- Power Adjustment with Thermal Control (pending)

### 2010

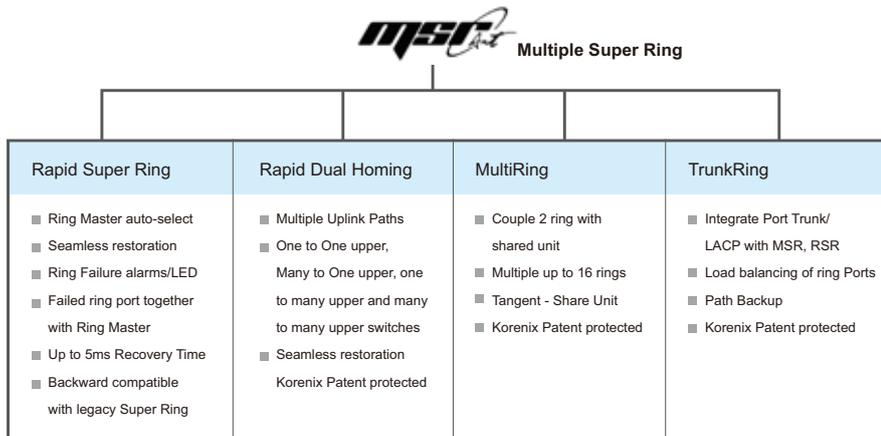
- Distribute Power Management Device
- Network Protocol Speedup Classification Method

### Rapid Super Ring (RSR) - Korenix delivers the fastest Ethernet redundant solution in the world, 5ms for failover time and 0ms for restoration time

Korenix delivers the world's fastest Ethernet redundant solution in the new generation of its intelligent industrial managed switches. The failover time can reach to less than 5 milliseconds, and the restoration time can be ZERO ms without any negative effect. Korenix patented RSR has the fastest Ethernet recovery time in the world for critical industrial applications.



### New generation ring technology – MSR covers different network redundancy applications and structures.



# Innovation & Value Creation

Accredited with ISO 9001:2008 of Korenix and its own production facility in Taipei, high level of ruggedness and reliability fulfill and exceed the requirement of mission critical communications networks deployed in harsh environments.

## Environment Test Lab:

1. EMI Test
2. Safety Test
3. Durability Test
4. Conducted Emission Test
5. ESD Test
6. Drop Test/Vibration Test/Shock Test
7. IP67/IP68 Test
8. Thermal Test
9. Hazardous Location Certification: Class 1 Division 2, UL1604 (will be ANSI/ISA-12.12.01-2007)
10. Substation: IEC 61850-3 and IEEE 1613
11. Maritime: DNV and IEC 60945
12. Railway: EN 50155, EN 50121-4 and EN 61373
13. Traffic Control: NEMA TS2



Shock Test



Vibration Test



EMI Open Area Test Site



EMI/RF Chamber



Drop Test



ESD Test



EFT/Voltage Dips Test



Surge/Ring Wave Test



Magnetic Field Test



Harmonic/Flicker Test



Durability Test



Safety Test



Conducted Emission Test



IP67 Dust Tight Test



IP67/IP68 Water Proof Test

**I-Test Lab:**

- 1. Temperature and Humidity Test
- 2. Cold/Warm Start Test
- 3. Power Consumption Test
- 4. HiPot Test
- 5. Compatibility Test
- 6. Design Verification
- 7. Performance Test
- 8. Conformance Test
- 9. Interoperability Test
- 10. Function Automation Test



Temperature and Humidity Test



Performance/ Conformance Test



Cold/Warm Start Test



Power Consumption Test



HiPot Test



Long Distance Fiber Communication Test



Interoperability Test



Function Automation Test

**Precision Mechanical Quality:**

- 1. Graphite EDM Machine
- 2. Graphite CNC Machine
- 3. High Speed Hard Milling CNC Machine
- 4. CNS Milling Machine
- 5. Grinding Machine



High Speed Hard Milling CNC Machine



CNC Milling Machine



Precision Factory



Factory Automation



Graphite EDM Machine



Graphite CNC Machine

# Korenix Quality Assurance

## Manufacturing QA:

1. ICT Inspection
2. Visual Inspection
3. AOI Inspection
4. Function Test
5. Burn-in Test



SMT Line



ICT Inspection



Visual Inspection



AOI Inspection



BGA Scope



X-RAY  
Fluorescent



Z-Solder  
Measurement System



N2 Generator



BGA Rework  
Station



Vacuum Seals  
Installation



Feeder Adjust  
System



Stencil & PCB  
Cleaning System



DIP Line



Burn-in Test

## Quality Certifications:

1. ISO-9001:2008
2. UL/CE/FCC/TAF/TUV
3. REACH/WEEE/RoHS
4. TAF GPMS - QC080000
5. TAF HSPM - QC080000 RoHS



ISO-9001:2008



UL



FCC



CE



TAF



RoHS



TAF



TUV



TAF GPMS -  
QC080000



TAF HSPM -  
QC080000 ROHS

## Vertical Market Certifications:

For vertical market application, Korenix products are designed and compliant with different approvals.

- IEC 61850 / KEMA for Power Substation
- NEMA TS2 for Intelligent Transportation System
- EN50155 for Rolling Stock
- UL508 for Industrial Environment

Associations: EtherCAT®



# Commitment on Services

## Logistics and Returns / Warranties

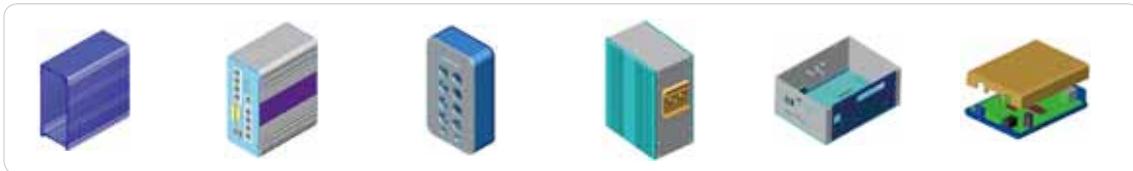
Korenix manufactures products with strict quality control methods. All products need to be 100% test by function and 4 hours burn-in before they are shipped to you. Korenix products



are constantly in stock and can be delivered within one week. Five year's global warranty and life time service is guaranteed for the products you purchased in Korenix. By the conditions of the returned units, Korenix will either repair or replace a working unit to you within 2 weeks.

## Custom OEM/ODM Solutions

At Korenix we are dedicated to engineering, manufacturing and integrating products that fit your unique needs. Korenix offers you the possibility of a partial or fully customized design from industrial networking switch to embedded computing platform, including all the software protocols you need. As a member of your team, we are a committed business partner to help you develop a completely integrated solution no matter how difficult the challenge.



## Global Customer Service Network



The strength of Korenix is not what Korenix do, but is the alliance and partnership of Korenix build. At Korenix, we hear your voices and we speak your languages. Korenix sales offices and over 100 Korenix global value-added partners are more than happy to answer your request anytime, anywhere.

# Value Oriented Partnership

## Global Partners

Korenix is dedicated to developing the long term partnership with Korenix Global Partners based on the foundation of mutual trust, brand commitment and global branch franchise. Korenix Technology practices the Global Partner Summit annually or biannually. From Europe to Asia, the family-like strength of Korenix Partnership brings all the partners together for sharing the success stories from around the globe.



## KCE Korenix Certification Engineer Program

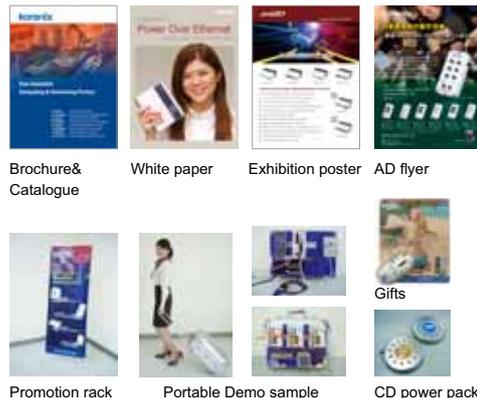


Korenix develop Korenix Certification Engineer (KCE) Program, leading all global partners and value-added system integrators to practice the local real-time services with the international vision of cutting-edge technologies. Korenix has held 100 global KCE programs since 2005 for training more than a thousand engineers and received the exceptional feedbacks globally.

Korenix equals knowledge!

## Sales / Marketing Support

Korenix provides the marketing support to accommodate the marketing activities, such as up-to-date brochures & catalogues, customized commercial AD flyers, white papers, exhibit poster kits & new demo samples, Korenix product presentations and multi-language quick installation guides translated into 9 different languages as English, Chinese, Germany, French, Spanish, Russian, Polish, Japanese and Korean.



## Vertical Portal Website

In addition to main corporate website [www.korenix.com](http://www.korenix.com), Korenix provides portal site for IP surveillance partners in [www.korenixsecurity.com](http://www.korenixsecurity.com), which gives you insightful information on the Video over IP applications. The embedded portal site [www.korenixembedded.com](http://www.korenixembedded.com) gives comprehensive knowledge and support over various embedded platform and the solutions.

# Security & Surveillance



IP surveillance is a technology that has become pivotal in security, safety and process monitoring applications. Using the flexibility and scalability of sending video over TCP/IP, IP surveillance networks can be extended over a range of physical layer media such as UTP, fiber and wireless. Multiple IP surveillance networks can be interfaced over WAN such as private metro networks and the internet. Korenix is the market leader in providing outstanding connectivity solutions for IP surveillance networks.

## Layer 3 routing for Enhanced Backbone Network Construction

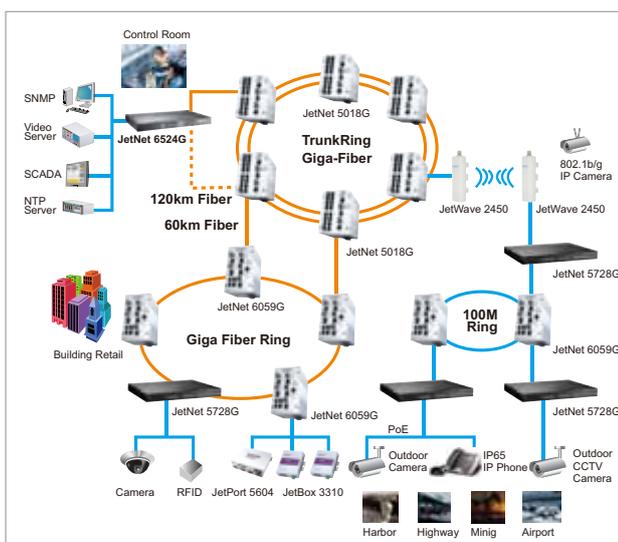
The JetNet 6524G rackmount gigabit stackable Layer3 managed switch is an ideal solution to act as a backbone switch in a control room for building reliable, high-bandwidth network. With its 8 unit stacking ability, the switch can provide up to 384G bandwidth with various fiber/copper media combinations. 4 Giga SFP combo ports allow the switch to operate as backbone system for forming giga MSR redundant ring networks and easily managing routing between different network segments.

## High-Power & High-Performance PoE and Wireless Connectivity

To extend the surveillance network to the node, Korenix range of JetNet & JetPoE series are designed to meet the requirements of any application. For highly critical PoE applications such as real time IP video surveillance, Wimax and Wireless AP, JetPoE series rackmount High-port density switches can be used to deliver up to 30W per port to dozens of PoE-enabled devices by the latest High Power PoE standard. In places where the wired infrastructure cannot be reached, JetWave 2450 provides supercharged transmission speed, range & performance by 802.11n technology while extending wireless coverage to 5KM.

## Reliable Networking & Efficient Management

With Korenix patented MSR redundant ring, the switches ensure non-stop data transmission. They further incorporate LLDP and work effectively with JetView Pro i<sup>2</sup>-NMS to allow users automatically visualize network topology and efficiently manage network groups. To fit in small system of front-end controller applications, compact programmable embedded Linux-based computers with low power consumption and versatile interfaces provide enhanced networking performance with connectivity to PLCs, access and security control devices, sensors, alarms, etc. Korenix security & surveillance solutions have been deployed to roads, mines, rail, power and many other industrial applications, making Korenix the market leader in complete industrial networking solutions.



## Recommended Products

|   |   |   |   |
|---|---|---|---|
|  <p><b>JetNet 5018G</b><br/>Industrial 16+2G Gigabit Managed Ethernet Switch</p> |  <p><b>JetNet 6524G</b><br/>Industrial Stackable Layer 3 Gigabit Managed Ethernet Switch</p> |  <p><b>JetNet 6059G</b><br/>Industrial 9-port Full Gigabit Managed Ethernet Switch</p> |  <p><b>JetNet 5728G</b><br/>Industrial Rackmount 24+4G Managed High Power IEEE802.3at PoE Switch</p> |
|  <p><b>JetBox 3300</b><br/>Compact Programmable Embedded Linux Computer</p>      |  <p><b>JetWave 2450</b><br/>IEEE 802.11b/g/n Wireless Outdoor AP</p>                         |  <p><b>JetView Pro</b><br/>Industrial Intelligent Network Management System</p>        |   |

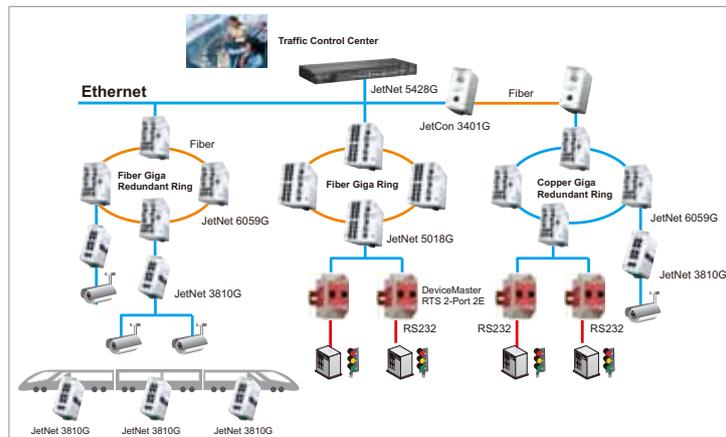
# Transportation



Throughout the world safety and security became a serious issue for underground transportation systems. To ensure its passengers' safety, a subway company in China built a security and surveillance system, both in railway station and in each railcar, where the devices operating in moving railcars are designed to withstand constant vibration and shock. While providing a safe and secure network connection, the devices also need to provide strong EMS protection since the subways are driven by high-voltage systems.

## 12V Booster PoE for Transit Surveillance

Korenix introduced a complete communications solution to the railcar using the JetNet 3810G Switch to provide vehicle PoE connectivity with the reliability and vibration/shock resistance through IP31 solid enclosure. Network system integrators can benefit from the vehicle PoE technology - the 12V to 48V power booster of the switch to make the deployment of standard PoE IP cameras feasible on railcars.



The devices are as well used in the station, to power IP cameras using Fast Ethernet PoE ports and to deliver high-bandwidth data to high-end management switches through dual gigabit uplink ports.

## Flexible, High-Performance Network Connectivity

The security device units communicate via RS232 or RS422 and are controlled by Control's DeviceMaster RTS 2-Port 2E. Fiber Gigabit backbone comprising of the JetNet 5018G and JetNet 6059G provides large bandwidth data transmission and guarantees the reliability by Korenix patented TrunkRing technology in extended networks. The devices at remote sites are connected through JetCon 3401G without interference.

## Advanced Management and System Reliability

The whole system is integrated into multiple fiber/copper rings with the JetNet 5428G MSR MultiRing technology to deliver reliable data transmission to the control room with just 5 milliseconds of recovery time. Administrators at the command center can achieve higher transparency with the automatic device topology visualization through the LLDP and JetView Pro intelligent network management system of the JetNet and JetPoE managed solutions. Using this complete Korenix vehicle communications solution, the transport system operators can track and manage system alarms and events immediately from the control room.

## Recommended Products

|  |  |   |   |
|--|--|---|---|
|  <p><b>JetNet 5428G</b><br/>Industrial 24+4G<br/>Rackmount Managed<br/>Ethernet Ring Switch</p> |  <p><b>Device Master</b><br/>RTS 2-Port 2E<br/>Serial Device Server</p>         |  <p><b>JetNet 3810G</b><br/>Industrial 8 PoE + 2 GBE<br/>Booster PoE Switch</p>          |  <p><b>JetNet 5018G</b><br/>Industrial 16+2G Gigabit<br/>Managed Ethernet Switch</p> |
|  <p><b>JetNet 6059G</b><br/>Industrial 9-port Full Gigabit<br/>Managed Ethernet Switch</p>      |  <p><b>JetCon 3401G</b><br/>Industrial Gigabit Ethernet<br/>Media Converter</p> |  <p><b>JetView Pro</b><br/>Industrial Intelligent<br/>Network Management<br/>System</p> |   |

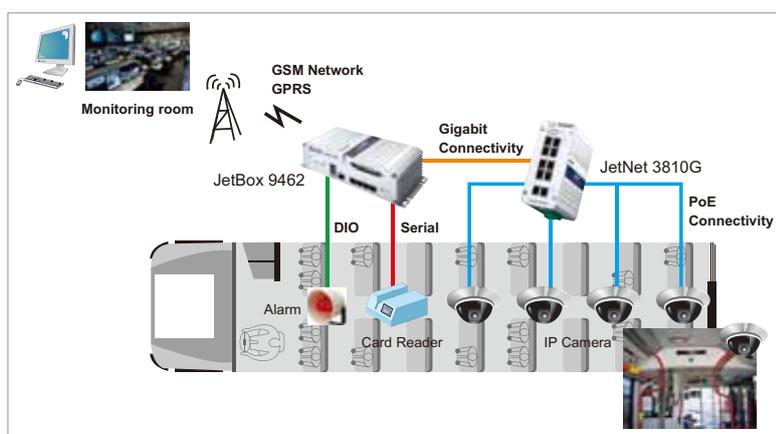
# Bus Surveillance



Due to the emerging technological innovations, IP video surveillance on buses has become vital for reducing crime and vandalism. With the lack of 48VDC power source, deployment of IP on moving platforms requires extra expenses and decreases efficiency while using additional power adapter for its conversion. The uniquely harsh environment on moving platforms in its turn leads to extreme temperature and humidity ranges as well as the need for mechanical robustness. Korenix presents outstanding computing and networking solutions that greatly enhance the surveillance networks in mobile applications while minimizing costs.

## 12V Booster PoE for Vehicle Surveillance

To ensure easy power feeding to the IP-enabled devices on vehicles, Korenix JetNet 3810G switches with the exclusive on-board 12V power boosting technology can be implemented, eliminating the need of additional powering device. Simultaneously they are capable of collecting video streams from cameras, data packets from RFID readers and using Gigabit uplink ports store the high-bandwidth data in Korenix programmable embedded computing platforms.



## Enhanced Connectivity through Extension Networking

Users can benefit from the serial interfaces of the JetBox 9462 to collect data from card readers, speakers and other access and security devices and to remotely manage them through Ethernet in flexible ways. Using the reserved mobile card slot, it can then extend the mobile communication via GSM / GPRS / 3G / 3.5G / HSUPA. For delivering geographical positioning, in addition the GPS can be used.

## Layer 3 routing for Enhanced Computing

To efficiently manage extended network groups, the complete Layer 3 routing functionalities of JetBox embedded VPN platforms are used. By implementing the VPN, administrators can establish dynamic, long-distance and secured network connections over WAN. The built-in Linux makes the embedded platforms perfect devices for providing easy network system maintenance and fast remote access in front-end industrial control applications.

Combined with IP-31 rugged fan-less design, including vibration/shock resistance and wide operating temperature range, the Korenix PoE networking and embedded computing solutions ensure the reliability and high performance of large network infrastructures in severe industrial environments.

## Recommended Products



# Gas and Oil



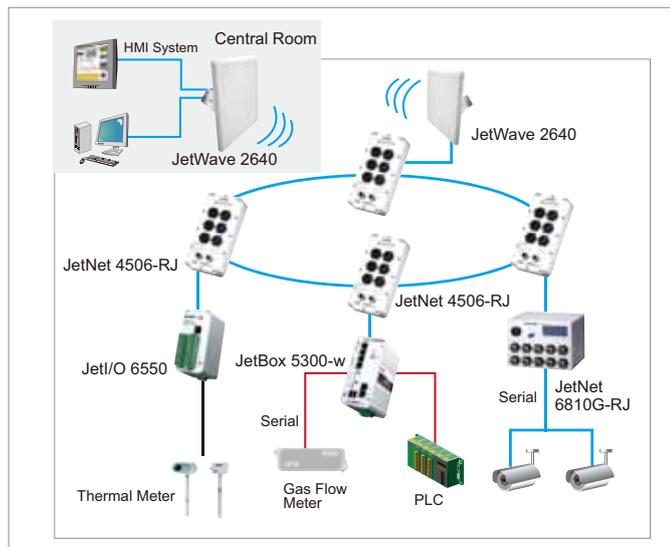
Oil, gas, and petrochemical industry today play a vital role in driving the world's economy. Efficiency, scalability, and security are top challenges for the oil and gas industry. Industrial network for oil and gas SCADA and surveillance applications is required to process great amount of data in real time and redundant considerations. The heavy-duty environment demands equipment to endure wide temperature, high humidity, dust and even the explosive field.

## Rugged Anti-Vibration Fast Ethernet Connectivity

To ensure the reliability and security of the natural gas pipeline system in extremely severe areas, Korenix JetRock series are implemented in a control system to monitor the status of the distributive equipments along the pipeline through rugged weather tight enclosure and IP67 rated RJ45 ports, which ensure a waterproof and dust-tight connection.

## 24V Isolated Booster PoE for Video Surveillance

For providing real-time monitoring and surveillance of gas and oil plants, the JetPoE series with solid RJ45 connectors are taken into action. Using the 24V isolated booster PoE



ports, they are capable of powering outdoor IP cameras in severe locations, where 48V PoE source is not available. The dual Gigabit ports provide solid high speed uplink to connect with higher level backbone switches with Korenix MSR™ network redundancy technology, which helps to secure the transmission of natural gas across Czech Republic and deliver real time data to regional gas distribution companies with seamless connectivity.

## Device and Signal Remote Control

Korenix programmable JetBox series as well as JetIO series are used for data acquisition via serial interface, digital input/output channels and analog inputs, such as gas flow meters, thermal meters, PLCs, alarms. Designed with a performance-optimized Linux operating system, the programmable embedded computer provides easy network system maintenance and fast remote access. To expand the network with long-range wireless connection, JetWave 2640 with 5G and 2.4G interfaces is used in the central room to guarantee high-speed wireless network coverage by easily collecting the data from field site via 802.11a technology and relaying it through 802.11b/g to the system administrator.

## Recommended Products





# Mining

Mining operations are deployed with sophisticated industrial controls and sensors for safety and operations efficiency. Network reliability between the distributed devices is the priority concern for mining applications. Korenix products are greatly deployed by leading gold mining, platinum mining and copper mining companies for their superior industrial design and highly reliable quality.

## Ruggedized Design for Enhanced, Solid Connectivity

With -25 to 70°C operating temperature range and IP31 to IP67 grade enclosure protection, Korenix JetRock, JetNet, and JetBox series significantly enhance the network connectivity. JetRock switches are designed to work in dusty, humid underground environments. The waterproof, dust-tight and corrosion resistant housing enhances reliability to the hazardous environment, whereas the waterproof rugged RJ45 connectors ensure the solid connection.

The JetNet 3706-RJ with 4 PoE ports is the best solution for ruggedized PoE applications while delivering reliable data and power to IP camera, IP telephony.

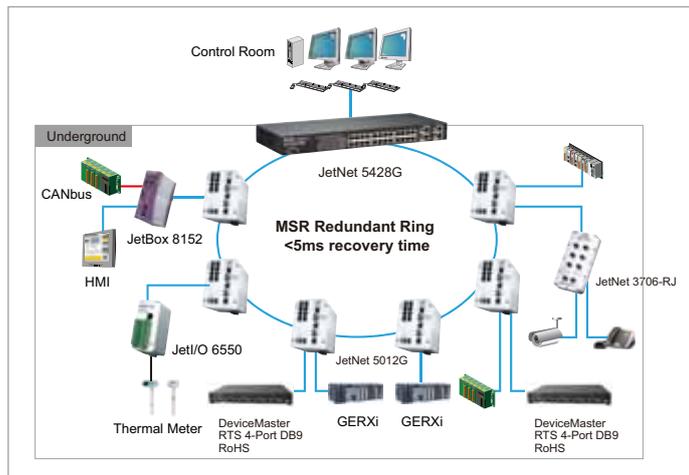
## Reliable and Seamless Networking

The JetNet series implement Korenix patented redundant ring technology, to bring world's shortest recovery time for network failure in less than 5ms. With exclusive MultiRing technology the high port density switches can provide reliable large bandwidth data flow in extended distance networks. To easily and efficiently manage the networks of mining areas from the centralized room, various advanced networking management and security features are being used, including the LLDP and JetView Pro i<sup>2</sup>-NMS for auto discovery of IP-enabled devices.

## Flexible Distance Device and Signal Control

Field controllers with serial ports connectivity are remotely controlled by Control's DeviceMaster RTS 4-Port DB9 RoHS serial devices through TCP/IP network. For extended distance applications with multiple nodes, the CANbus port of JetBox 8152 computers can be used. To perform data acquisition via analog inputs of various measurement devices, such as thermal meters at remote sites, JetIO 6550 series are further used.

By implementing Korenix complete networking solutions, administrators at the command center can remotely control the status of field site devices and monitor the widespread mining areas in a real-time basis.



## Recommended Products

**JetNet 5428G**  
Industrial 24+4G  
Rackmount Managed  
Ethernet Ring Switch

**JetNet 5012G**  
Industrial 8+4G Gigabit  
Managed Ethernet Switch

**JetNet 3706-RJ**  
Industrial 6-Port  
RJ45/IP67 PoE Switch

**DeviceMaster**  
RTS 4-Port DB9  
RoHS Serial  
Device Server

**JetBox 8152**  
Industrial Communication  
Computer (with CANbus)

**JetIO 6550**  
Intelligent 14-CH DI and  
8-CH DO Ethernet I/O Server

**JetView Pro**  
Industrial Intelligent  
Network Management  
System



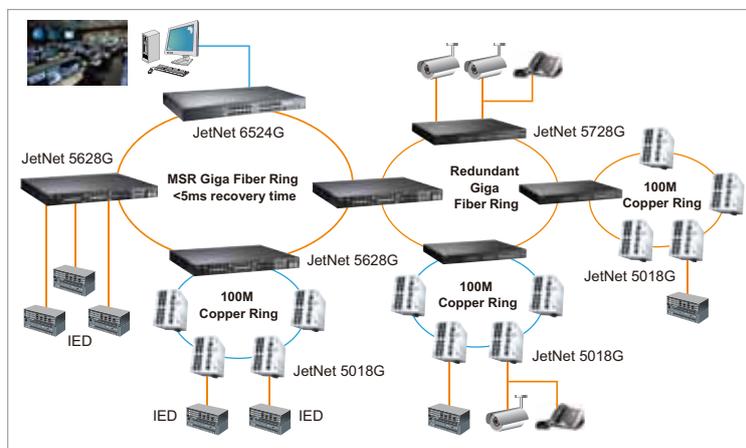
# Power Substation

In view of continuous growth of communication devices, power substations are becoming more automated and increasingly deploy intelligent devices to monitor and control these facilities. In order to avoid possible disruptions due to unexpected failures, a reliable, scalable and secure network between substations and remote control center is vital. Yet, the networking equipment should guarantee very strict requirements and comply with the IEC61850-3 / IEEE1613 power substation standards to prevent possible power disturbances and outages as well as be robust to overcome harsh ambient conditions with wide temperature variations.

Korenix introduces a complete solution of rackmount managed gigabit switches for providing highly reliable network communication and real-time monitoring in critical substation applications.

## High-Bandwidth and Long Distance Connectivity

The IEC 61850-3 / IEEE1613 certified JetNet 5628G modular managed gigabit switches with 3 slots provide several types of fast Ethernet modules with high fiber/copper optic and gigabit port densities to deliver maximum flexibility for various network connection needs while reducing overall connectivity costs. The JetNet 5728G rackmount PoE giga series is used to deliver 30W power per port by IEEE 802.11at High



Power PoE to the high-end IP cameras in field sites and simultaneously extend video stream transmission through giga SFP combo ports. Administrators can benefit from the routing functionalities of L3 switch for easily managing routing between network segments. With its stackable design, the switch provides up to 192G ports, becoming an ideal solution for backbone network constructions in power substations.

## Auto-topology Visualization and Advanced Management

To ensure easy network maintenance, the switches feature LLDP and JetView Pro i<sup>2</sup>-NMS for providing automatic device discovery and efficiently managing network performance. The non-stop network operation is achieved by the patented MSR redundancy technology with just 5ms recovery time. With the exclusive MultiRing design, users can aggregate fast Ethernet and giga rings into a single switch and guarantee network reliability in applications with increased bandwidth and expended system. Other advanced management features as well as the wide operating temp, redundant power supply and rugged fan-less design complete power substations requirements and provide highly advanced control and monitoring of substation networks.

## Recommended Products

|   |   |   |
|---|---|---|
|  <p><b>JetNet 6524G</b><br/>Industrial Stackable Layer 3 Gigabit Managed Ethernet Switch</p> |  <p><b>JetNet 5728G</b><br/>Industrial Rackmount 24+4G Managed High Power IEEE802.3at PoE Switch</p> |  <p><b>JetNet 5628G</b><br/>IEC61850-3 24+4G Modular Managed Ethernet Switch</p> |
|  <p><b>JetNet 5018G</b><br/>Industrial 16+2G Gigabit Managed Ethernet Switch</p>             |  <p><b>JetView Pro</b><br/>Industrial Intelligent Network Management System</p>                      |   |



# Wind Energy

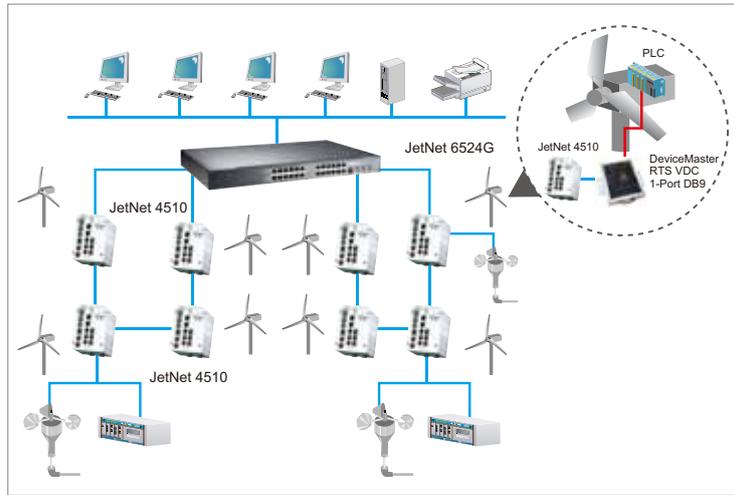
The operation of today's large wind power plants with hundreds of wind turbines located in vast areas require efficient maintenance strategies to ensure uninterrupted power production and controlled expenses to operation and maintenance. To interconnect wind turbines and uplink to wind tower control box, reliable networking devices with long-haul transmission capability are required. Moreover, they should have high resistance to withstand severe conditions with vibration and wide operating temperature, which is characteristic for wind turbines.

Korenix offers a complete networking solution to solve all these issues with their total integration into an Ethernet network.

## Flexible and Solid Network

### Connectivity

The Control's DeviceMaster RTS single port serial device server is installed in the system to connect and control the PLCs inside the wind turbines. It then communicates with the JetNet 4510 series managed switches, which helps extend the data transmission by converting copper Ethernet medium used in the control box for optical fiber transmission. By employing its flexible interface with three fiber ports, users can connect widely dispersed wind turbines,



using the third fiber port to uplink to the tower control box. The IP31 grade enclosure with vibration resistance and -20~70°C wide operating temperature allow the devices withstand harsh conditions at the wind towers.

### Layer 3 for Enhanced Network Management

In the remote control station running SCADA and control systems that analyze collected data, Korenix rackmount stackable switch is implemented, which uses its Layer 3 functionality to manage routing between extended network groups. With its stackable design it provides gigabit fiber and copper connections becoming the ideal solution for building highly critical backbone network in wind towers.

### Advanced Management and Network Reliability

System integrators at the command center benefit from the advanced management and security features of the switches by using the LLDP and JetView Pro i2NMS in addition to the Web utility and SNMP, which provide auto-topology visualization of the networking devices and help to easily and efficiently manage the network. With patented MSR, the switches are capable of forming gigabit rings while ensuring the reliable and uninterrupted data transmission with just 5ms link recovery time.

Using the intelligent design and outstanding functionalities of the Korenix Din-Rail and rackmount managed switches, as well as Control's intelligent 1-port device servers, administrators are able to provide enhanced remote monitoring and control of the wind turbines with guaranteed reliable data transmission and minimized costs.

## Recommended Products





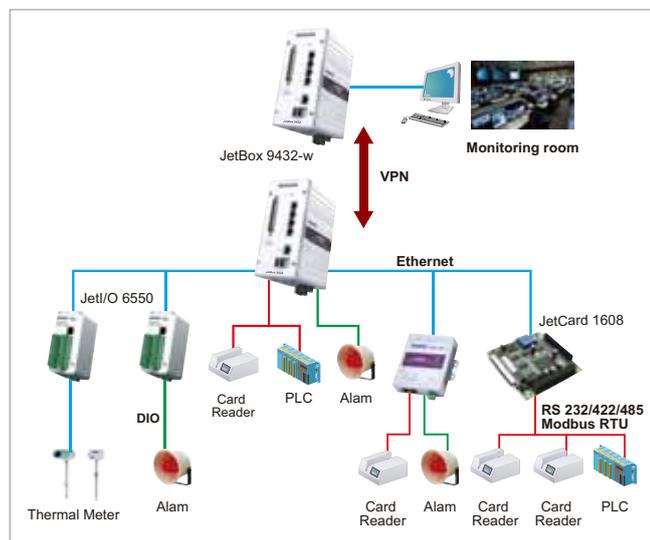
# Factory Automation

With today's computing environment becoming increasingly complex, industrial device management at factory floor becomes a burden. Therefore, production chain optimization demands intelligent IT applications and network-enabling solutions. The need to capture, control and analyze data from industrial and manufacturing equipment in a real-time basis is quickly becoming an important issue for administrators. Increasingly, Ethernet is chosen as preferred method for remote management of industrial devices at factory floor. However, here networking devices should be working on heavy duty to stand up to electrical noise, dust, extended media distances, round-the-clock operations and wide temperature variations.

Korenix provides complete range of LAN, Serial & DIO connectivity platforms that make networking easy and convenient while providing plant personnel the tools they need to increase machine uptime and availability.

## Flexible Connectivity for Expended System

By implementing Korenix JetIO series, users can easily perform data collection, status modifications from IO measurement devices and automatically transfer active events through the Ethernet network to the monitoring room. Moreover, using advanced peer-to-peer remote I/O function, they can greatly extend IO signals over LAN and thus allow building real-time distributed monitoring and control systems. To connect and remotely manage PLCs, access control devices, JetBox 9432 series embedded VPN routing computers can be used, which are capable of transferring high quality data through Serial, DIO, LAN, WAN ports, expend embedded system with wireless connectivity via USB ports and remotely manage them by LAN.



## Embedded System with Layer3 and Linux Computing

The embedded computer with complete Layer3 routing and VPN functionalities can operate as a networking gateway to expend networking capabilities. In field sites, with severe vibrating environments, where there is also the need of computing, the compact JetBox 3350i-w Linux computers with isolated serial ports can be implemented. With their small size and Linux computing functionalities, they can be perfectly used in embedded front-end controller applications at factory floors. To complete the networking needs, Korenix JetCard series add-on PCI-104 switch cards can further provide extended high-bandwidth data transmission, more serial and DIO connections, etc. With wide operating temperatures and rugged design Korenix devices form solid networking system which enhances network performance, provides efficient management with minimized costs of factory plants.

## Recommended Products

|   |  |   |  |
|---|--|---|--|
|  <p><b>JetBox 9432-w</b><br/>Embedded VPN Router Computer</p>                |  <p><b>JetBox 3350i-w</b><br/>Embedded Compact 2 LAN &amp; 2 Isolated Serial Linux Computer</p> |  <p><b>JetIO Series</b><br/>Industrial Intelligent I/O Server</p>                      |  <p><b>JetView Pro</b><br/>Industrial Intelligent Network Management System</p> |
|  <p><b>JetCard 2154G</b><br/>4-Port Gigabit Ethernet Switch PCI-104 Card</p> |  <p><b>JetCard 2105</b><br/>5-port Ethernet Switch PCI-104 Card</p>                             |  <p><b>JetCard 1608</b><br/>4-port RS-232/422/485 &amp; 4-port RS-232 PCI-104 Card</p> |  |

# Subway PIS

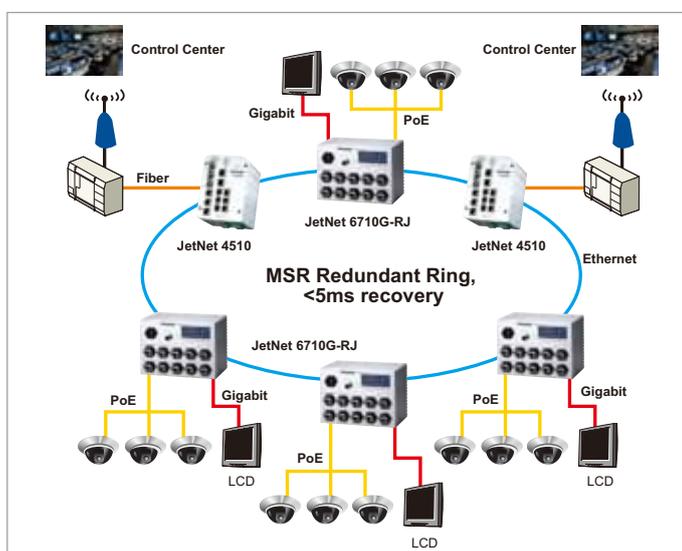


Passenger service is paid more and more attention in operation management of modern urban rail transit system. An Iranian subway operation company attaches great importance to the construction of highly evaluated Passenger Information System. Its basic concept refers to showing designated information to specified populations by adopting mature and reliable technologies in network, multimedia transmission and display. The high data quality can be achieved by constructing a highly reliable and real-time communication network in subways. To provide advanced PIS system, over hundreds of JetNet & JetPoE series are installed in the underground railcars to withstand vibration / shock, variable operating temperature and build communication network with high quality data transmission.

## High Power PoE for High-End Video

### Camera Connectivity

For driving the high-end IP cameras in the railcars and for transferring high speed video streams, JetNet 6710G-RJ high power PoE solutions are implemented delivering up to 30W power per port by IEEE 802.3at PoE to the cameras. Meanwhile, they receive real-time information, control constructions with the PIS wireless network and display the high bandwidth data on the LCD screen through the uplink gigabit ports. To upload all the video images and data from the railcars to the extended station monitoring center, JetNet 4510 series with flexible SFP combo ports are used for fiber-optic connectivity.



## Seamless Networking and Easy Maintenance

Users can benefit from the Korenix patented MSR technology to form redundant rings with just 5ms recovery, as a result enhancing network reliability and providing real-time video and data transmission to the command center. To ensure high quality and efficient video transmission, the switches support QoS video precedence transmission, optimized IGMP snooping, up to 255 VLAN traffic isolation etc. All these advanced management features allow passengers to react promptly according to the real-time information they receive from the LCD display screens. Administrators at the command center are able to manage the devices through SNMP, Web, CLI and, using the LLDP and JetView Pro, automatically visualize topology and perform efficient network management while reducing overall maintenance efforts and system costs.

With rugged RJ45 connectors and the wide operating temperature, the switches are capable of providing vibration/shock protection and reliable data transmission in underground railways becoming the perfect device for upgrading the PIS and improving passenger safety in modern subways.

## Recommended Products



# Railway

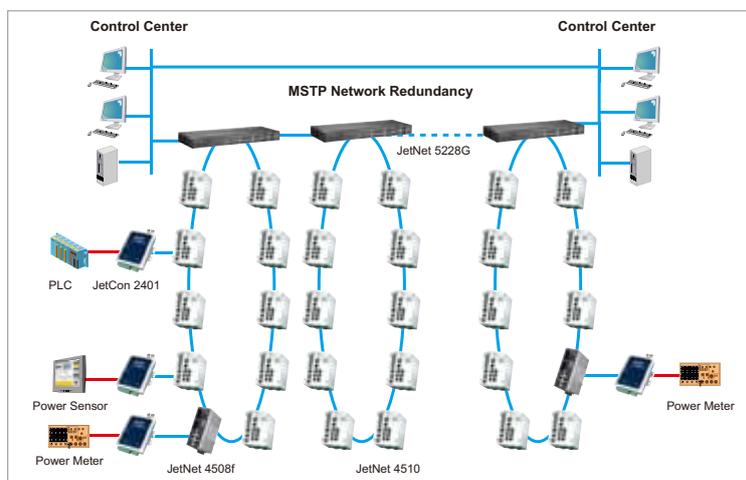


With concern over energy savings power monitoring alongside the China railroad is becoming more popular to assess the probable negative impacts on its operation. To efficiently manage and display data from the measuring devices, a real-time communication interface between the stations, monitoring centers and metering devices should be implemented. To keep the system integrated, manageable and to decrease costs, Ethernet may just fill the bill.

Korenix networking solutions have been implemented in China railroad power monitoring project for ensuring reliable and real-time data transmission in critical conditions facing vibration/shock, electromagnetic interference and highly extensible temperature in railways and power measuring sites.

### Flexible and Reliable Connectivity

In power plants located nearby each station of the railroad, Korenix DIN-rail switches are placed, which use their rich interface to collect and transfer measured data from great amount of power metering devices, sensors, PLCs to rackmount switch located at railroad station. Using the 2 Fiber ports, the switches placed far from each other are able to interconnect and form extended MSTP fiber redundant ring. The JetNet 5228G managed switches in stations, use their giga fiber



ports to extend high-bandwidth data while forming MSTP ring themselves and sending measured data from power plants to the control centers.

### Solid design for System Reliability

With the rugged design, including IP31 enclosure and -25~70°C wide operating temperature, the Din-Rail switches resist shock and vibration; perform EMI/EMC immunity, for providing reliable connectivity under critical environments of power plants. The fan-less rackmount switches, designed with various input types, including 90~264VAC & and 12~48VDC, can be flexibly used for field power constructions in railway stations.

### High Performance through Advanced Management

To easily manage devices, system constructors benefit from the advanced management features, including VLAN for facilitating station segment operations, QoS data prioritization for achieving higher quality, LLDP and JetView Pro for automatically drawing topology and remotely monitoring switches.

The solutions provided by Korenix helped to build a reliable data transmission system and provide real-time, efficient maintenance of power monitoring system over extended areas in harshest conditions of China.

### Recommended Products



## Industrial Intelligent Network Management System



- Manage IP-based devices from central office and remote sites
- Manage up to 1024 network nodes
- Open support for 3rd party network devices
- Automated network discovery and topology visualization
- MSR group management
- Server-Client operation to ensure system scalability, reliability and real time status
- Event handling via polling, syslog, email and SNMP trap
- Notification sent-out via email, application programs, SNMP trap, XMPP\*, SMS\* and MSN Messenger\*
- Device configurations via SNMPv1/v2/v3, Web, Telnet and SSH
- Provides performance management
- Provides accounting management
- Centralized management to reduce network traffic
- Free download for managing 64 nodes

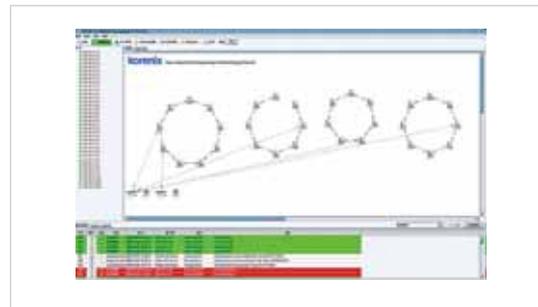
### Overview

Korenix i<sup>2</sup>-NMS (Industrial Intelligent Network Management System) JetView Pro, is specifically designed for mission critical industrial environments. The JetView Pro provides a comprehensive platform for

monitoring, configuring, and maintaining mission-critical IP-based communication networks, such as IP surveillance, factory automations, mining, substations, maritime, and military applications.

### Automatic Network Scan to Form Topology for Large Scale Network

Korenix JetView Pro can easily discover and manage up to 1024 network nodes, including 3-rd party SNMP devices in a large heterogeneous network, such as LAN, WAN, WLAN. All the detailed data on multiple subnets as well as MSR ring status, trunking link, wireless link\*, and VLAN\* link and port status, device information are automatically being visualized on the topology map. For users' convenience, the map can be exported or printed to diverse formats, including JPG, BMP, PNG and PDF. In addition, distinguished icons are being used to help administrators easily manage and trouble-shoot the large-scale network.



### Third-Party Device Integration

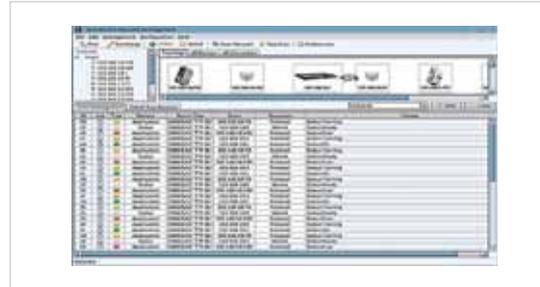
|                      | Korenix  |                      | 3rd Party Device     |                    |
|----------------------|--|----------------------|----------------------|--------------------|
|                      | SNMP enabled devices (not support 1.0.0 and 1.0.1) | SNMP enabled devices | SNMP enabled devices | IP enabled devices |
| Real-time Monitoring | Yes  | Yes                  | Yes                  | Yes                |
| Configuration        | Yes  | Yes                  | Yes                  | Yes                |
| Performance          | Yes  | Yes                  | Yes                  | Yes                |
| Event Configuration  | Yes  | Yes                  | Yes                  | Yes                |
| IP Management        | Yes  | Yes                  | Yes                  | Yes                |
| Accounting           | Yes  | Yes                  | Yes                  | Yes                |
| Availability         | Yes  | Yes                  | Yes                  | Yes                |

Although JetView Pro is designed and optimized for Korenix products, third-party products can easily be integrated with the system as well. Any SNMP-enabled device or even IP-enabled device can be supervised to the same level of detail as a Korenix product. Thus, only a single management application is required to monitor the complete network infrastructure and the connected end devices.

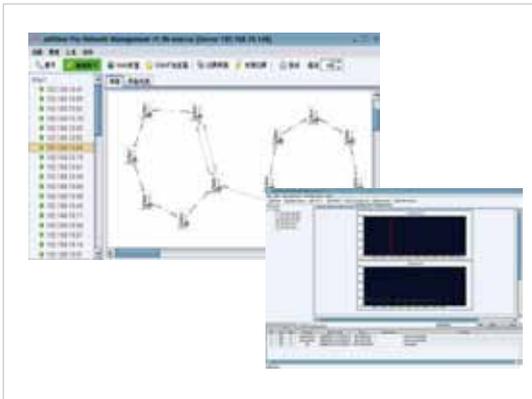
\*Available in JetView Pro v2.0

## Event Management

Administrators can define all the events, such as link failure, power failure, device availability, etc. occurred in the large network infrastructure. The notifications can be sent in a real-time basis via email, application programs, SNMP trap, and even in the future through XMPP\*, SMS\* and MSN Messenger\*.



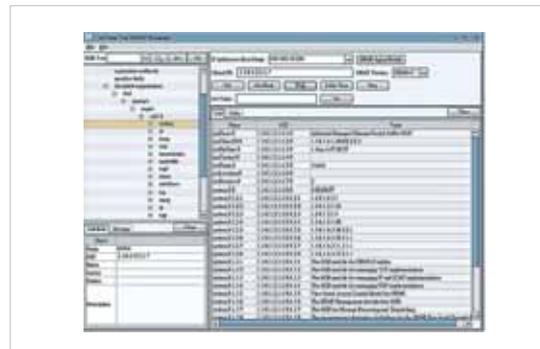
## Status & Performance Management



JetView Pro periodically monitors and reports selected nodes and interface statistics to provide real-time status of the device availability as well as traffic performance in a timely basis. By incorporating SNMP gatherer function, users can review the gathered SNMP MIB data performance without a need of additional device. Moreover, JetView Pro can be deployed centrally or remotely to reduce network traffic.

## Group Configurations

JetView Pro allows users to easily configure Korenix devices through Web, Telnet, SSH and SNMP. For SNMP capable devices, the JetView Pro will gather the requested information through periodic monitoring. Monitored SNMP devices will send alarms and events to alert the JetView Pro issues that have occurred in the network. With Korenix JetView Pro NMS, users can manage the devices one by one or in group to upgrade firmware and boot loader, restore and backup configuration files, assign or modify IP Addresses, configure MSR redundant rings, as a result greatly increasing network performance by easily completing multi-tasks within a small timeframe.

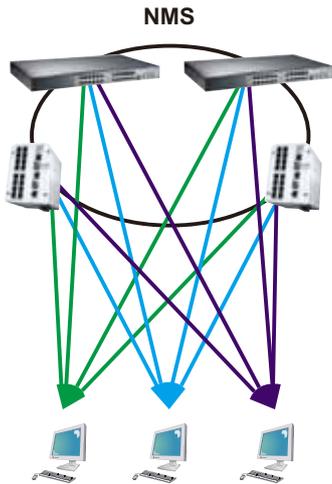


\*Available in JetView Pro v2.0

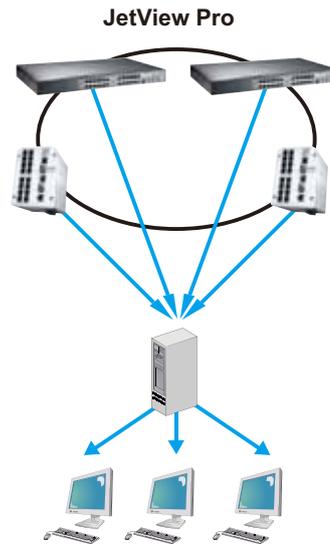
## Server-Client Operation for Reliable, Scalable and Real-time Network Management

Korenix JetView Pro i<sup>2</sup>NMS outstands from typical network management software by its intelligent master

slave architecture, allowing users to get all the updated information from network server in a real-time basis.



In a typical network management system, the end-user must periodically reload network system to collect the non-synchronized information from each device individually. This limits the NMS implementation to a small network with only a few number of clients. Besides, users are not able to have remote access to private client domains and search facilities.



Quite contrary to it, by using the JetView Pro Korenix intelligent NMS, users are capable to easily reload network and system status from server agents and collect real-time synchronized multi-user information in enhanced, large scale networks. Network administrators can further remotely monitor client connections across Internet and achieve high network performance with easy maintenance.

## Ordering Information

A demo version that supports monitoring of 64 IP-enabled devices is available for authorized distributors.

## Server Computer Requirements

- Minimum Intel Core 2 Quad-Core CPU 2.4 GHz or higher, 1GB RAM, 1GB hard disk
- Java Runtime Environment (JRE) 1.6.0 or higher
- Windows XP/2000/2003/Vista platforms
- Linux platforms

## JetPoE Series Industrial PoE / PoE Plus Switches

Korenix, the leader of industrial PoE market, provides solutions with powerful functionalities to fit and even exceed the challenges for industrial PoE applications. JetPoE Series consists of Managed and Unmanaged PoE switches, compliant with both IEEE 802.3af and High Power PoE IEEE 802.3at standards and delivering up to 30W power per port via RJ45 cables along with the highest quality data. With up to 200W total power budget per unit, JetPoE Series outstandingly fulfill local increasing PoE demands. The PoE switches are furthermore designed with wide operating temperature and rugged fan-less design, featuring IP31 grade protection, vibration and shock resistance, as well as 1500V Hi-Pot isolation for performing reliably in industrial environments.

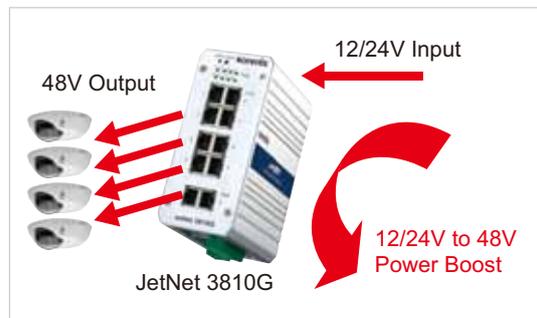
### Global Exclusive 30W High Power PoE Compliant to IEEE 802.3at

JetPoE series is the world's first industrial PoE switch with High Power PoE IEEE 802.3at, which is capable of delivering up to 30 watts per port and 200W per unit high power by software configuration or by LLDP PoE detection and power budget negotiation to fulfill local increasing PoE demands. As a result, it fits best for highly critical PoE applications such as real time IP video surveillance with high resolution quality and the evolving demands of wireless communications such as WiMax and 802.11 a/b/g/n Access Points.

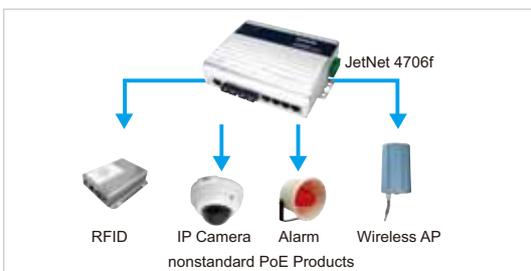


### Bus/Railcar PoE Capability

JetPoE series is designed with Korenix patented 12~24V to 48V vehicle PoE Boost technology to fulfill vehicle applications requiring exceptionally 24VDC power input. This makes the deployment of standard IEEE 802.3af PoE IP cameras feasible on bus, railcar, water vessel, etc.



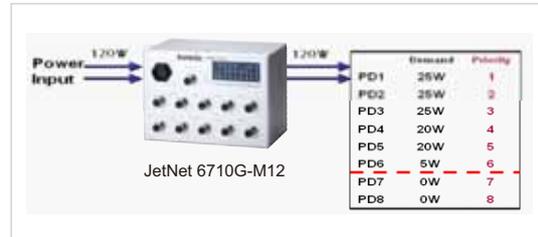
### Forced Power Feeding for Proprietary High Power PoE



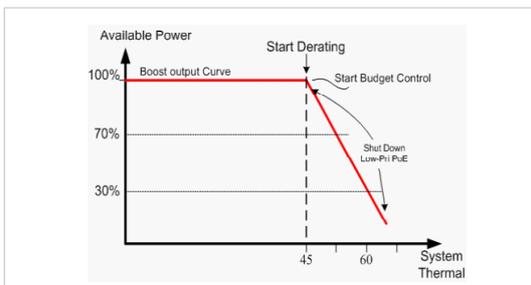
Besides standard PoE, nonstandard PoE is commonly seen on some legacy IP cameras, safety alarms, RFID readers, and wireless APs. JetPoE switches features proprietary powering design --- the forced powering mode which powers nonstandard PoE products with safety control.

## Priority Control for PD Power Budget Limitation

JetPoE series provides auto budget and priority control to limit total output power in case if a PD device is not claimed right consumption numbers. Once the total power supply exceeds the limit installed by user, the switch will automatically turn off the lowest priority ports. This will allow users to protect high priority PD devices from shut down caused by overloading of the power supply.



## Intelligent Auto Thermal Detection for PD Setting



Korenix JetPoE managed Booster switches adopt thermal detector to ensure the reliable operation of DC booster under safe temperature by smartly checking DC booster temperature and adjusting to its available PoE output. When PoE is degrading due to ambient temperature, PD will shut down by priority. This makes the PoE switch an intelligent power control device that helps users maintain the PD devices under specific temperatures.

## High Port Density and High Speed Connectivity

Korenix provides JetPoE series with a wide selection of port density, speed and configurations to ensure simple assembly in any system. With Gigabit fiber / copper

ports it provides high speed uplink to connect with higher level backbone switches and provide reliable data transmission for flexible applications.

## Industrial Grade PoE for Severe Environmental Applications



Korenix JetPoE series is designed with the best parameters to ensure the highest quality of the enhanced network. With extended temperature components, no moving parts and fans, JetPoE series are capable of operating under harsher conditions than commercial grade devices. Equipped with industrial IP-31 grade platforms, the devices work effectively under harsh environments exposed to dust and high humidity.

## Solid RJ45/M12 Connectors against Vibration and Shock



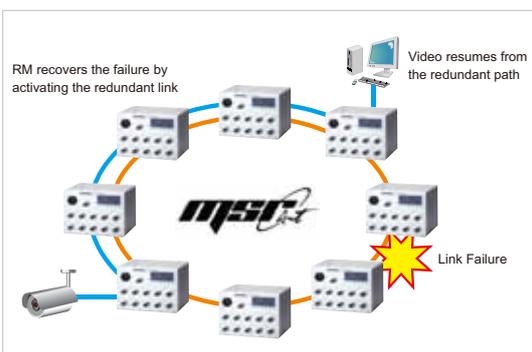
Korenix has designed PoE series with RJ45 and M12 connectors resistant to vibration and shock in order to best fulfill the requirements of various applications. Equipped with M12 D-coded connectors, the PoE switches can be used for upgrading industrial applications while delivering power along with data to PD devices in industrial machinery, factory automation, railways, marine applications etc. For outdoor networking applications, such as telecom, outdoor surveillance, wireless AP connections, PoE switches with rugged RJ45 Ethernet connectors can be ideal solutions.

## Smart Powered Device Alive-Check through “Link Partner Line Detect”

Korenix PoE switches can be configured by Korenix patented PoE “Link Partner Line Detect” technology to guarantee the reliable connection of PD devices through easy monitoring of their real-time status. Once the keep-alive checking detects PD failure, it resets the PoE port to bring the PD back to a working state. This greatly enhances the system reliability while minimizing the maintenance time and cost.



## Outstanding Network Reliability by MSR



In the traditional star network, an unexpected link failure results in the loss of all the data transmitted on the path. With Korenix patented MSR (Multiple Super Ring), any link failure is being recovered in just 5ms. As a result, all traffic is protected from any network failure and can be resumed even without being noticed. Hence, no critical point can be seen in this fast-recovery topology.

## Korenix Product Selection Guide – Managed High Power IEEE 802.3at PoE Switch



JetNet 5728G



JetNet 6710G-M12



JetNet 6710G-RJ



JetNet 5710G

### Managed Giga High Power IEEE 802.3at PoE Switch

| Interface  |   |   |   |   |
|--|---|---|---|---|
| Number of Ports:10/100Base-TX                    | Max 24  | 8 (M12)   | 8 (RJ45)  | 8   |
| Number of Ports:10/100/1000Base-TX               | 4 (Combo)   | 2   | 2   | 2   |
| Number of Ports: PoE Injector                    | Port 1~24   | Port 1~8  | Port 1~8  | Port 1~8  |
| Number of Ports:100Base-FX<br>(Multi Mode Fiber) | 4 (Giga SFP)  |   |   |   |
| (Single Mode Fiber)                              |   |   |   |   |
| PoE Wiring Pins                                  | 1,2,3,6   | 1,2,3,4   | 1,2,3,6   | 1,2,3,6   |
| PoE Standard                                     | IEEE802.3 af PoE<br>IEEE802.3 at PoE-Plus<br>2-event and LLDP Classification<br>Forced Mode PoE | IEEE802.3 af PoE<br>IEEE802.3 at PoE-Plus<br>LLDP Classification<br>Forced Mode PoE | IEEE802.3 af PoE<br>IEEE802.3 at PoE-Plus<br>LLDP Classification<br>Forced Mode PoE | IEEE802.3 af PoE<br>IEEE802.3 at PoE-Plus<br>LLDP Classification<br>Forced Mode PoE |
| Power Terminal                                   | 2 x DC 46 ~ 57V<br>AC 90~264V/DC127~370V  | DC48~57V *2   | DC48~57V *2   | DC48~57V *2   |
| PoE Power per port                               | 30W   | 30W   | 30W   | 30W   |
| Total Power Budget                               | 460W*   | 200W  | 200W  | 200W  |
| 24V Boost  |   |   |   |   |
| Power Jack                                       |   |   |   |   |
| Fault Relay Output                               | ●   | ●   | ●   | ●   |
| HIPOT  | 1500VAC   | 1500VAC   | 1500VAC   | 1500VAC   |
| Mechanical                                       |   |   |   |   |
| Rigid Aluminum Case                              | ●   | Steel Metal   | Steel Metal   | Steel Metal   |
| Case Protection                                  | IP 31   | IP 30   | IP 30   | IP 30   |
| Dimensions (unit=mm)                             | 43.8(H) x 431(W) x 375 (D)  | 145.2 (H) x 230.6 (W) x 74 (D)  |   | 145(H) x 216.5(W) x 63.8 (D)  |
| Operating Temperature                            | -25~65°C (802.3af)  | -40~60°C (802.3af)  | -40~60°C (802.3af)  | -40~70°C (802.3af)  |
| DIN-Rail/ Wall Mount Kit                         |   | Wall Mount  | Wall Mount  | Wall Mount  |
| Rackmount Kit                                    | ●   |   |   |   |
| Protocols  |   |   |   |   |
| Web-based Configuration                          | ●   | ●   | ●   | ●   |
| Windows Utility (JetView, JetView Pro)           | ●   | ●   | ●   | ●   |
| Secured HTTPS,SSH                                | ●   | ●   | ●   | ●   |
| Super Ring, RSTP                                 | ●   | ●   | ●   | ●   |
| MSR (RSR, RDH, Multi Ring)                       | ●   | ●   | ●   | ●   |
| IGMP Snooping & IGMP Query                       | ●   | ●   | ●   | ●   |
| Tag-VLAN   | ●   | ●   | ●   | ●   |
| Quality of Service                               | ●   | ●   | ●   | ●   |
| SNMP V1/V2C/V3/RMON1                             | ●   | ●   | ●   | ●   |
| SMTP(e-mail warning)/Syslog                      | ●   | ●   | ●   | ●   |
| IEEE802.1 AB LLDP                                | ●   | ●   | ●   | ●   |
| Certifications                                   |   |   |   |   |
| Regulatory Approvals:CE / FCC / UL               | CE/FCC  | CE/FCC  | CE/FCC  | CE/FCC  |
| RoHS/WEEE  | ●   | ●   | ●   | ●   |
| EN 50155 Railway                                 |   | Compliance  | Compliance  | Compliance  |

\* Specifications may change without prior notice

## Korenix Product Selection Guide – Managed High Power PoE Switch



JetNet 4706



JetNet 4706f



JetNet 3706



JetNet 3706f

|  | Managed High Power PoE Switch       |                                     | Web-Managed High Power PoE Switch   |                                     |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <b>Interface</b>                       |                                     |                                     |                                     |                                     |
| Number of Ports:10/100Base-TX          | 6                                   | 4                                   | 6                                   | 4                                   |
| Number of Ports:10/100/1000Base-TX     |                                     |                                     |                                     |                                     |
| Number of Ports: PoE Injector          | Port 1~4                            | Port 1~4                            | Port 1~4                            | Port 1~4                            |
| Number of Ports:100Base-FX             |                                     | 2                                   |                                     | 2                                   |
| (Multi Mode Fiber)                     |                                     | JetNet 4706f-m                      |                                     | JetNet 3706f-m                      |
| (Single Mode Fiber)                    |                                     | JetNet 4706f-s                      |                                     | JetNet 3706f-s                      |
| PoE Wiring Pins                        | 4,5,7,8                             | 4,5,7,8                             | 4,5,7,8                             | 4,5,7,8                             |
| PoE Standard                           | IEEE802.3 af PoE<br>Forced Mode PoE |
| Power Terminal                         | DC24 / 48V*2                        | DC24 / 48V*2                        | DC24 / 48V*2                        | DC24 / 48V*2                        |
| PoE Power per port                     | 25W                                 | 25W                                 | 25W                                 | 25W                                 |
| Total Power Budget                     | 80W                                 | 80W                                 | 80W                                 | 80W                                 |
| 24V Boost                              |                                     |                                     |                                     |                                     |
| DC Power Jack                          |                                     |                                     |                                     |                                     |
| Fault Relay Output                     | ●                                   | ●                                   | ●                                   | ●                                   |
| HIPOT                                  | 1200VAC                             | 1200VAC                             | 1200VAC                             | 1200VAC                             |
| <b>Mechanical</b>                      |                                     |                                     |                                     |                                     |
| Rigid Aluminum Case                    | ●                                   | ●                                   | ●                                   | ●                                   |
| Case Protection                        | IP 31                               | IP 31                               | IP 31                               | IP 31                               |
| Dimensions (unit=mm)                   | 174.8(W) x 46.5(H) x 136(D)         |                                     | 174.8(W) x 46.5(H) x 136(D)         |                                     |
| Operating Temperature                  | -40~60°C                            | -40~60°C                            | -40~60°C                            | -40~60°C                            |
| DIN-Rail/ Wall Mount Kit               | ●                                   | ●                                   | ●                                   | ●                                   |
| Rackmount Kit                          |                                     |                                     |                                     |                                     |
| <b>Protocols</b>                       |                                     |                                     |                                     |                                     |
| Web-based Configuration                | ●                                   | ●                                   | ●                                   | ●                                   |
| Windows Utility (JetView, JetView Pro) | ●                                   | ●                                   | ●                                   | ●                                   |
| Secured HTTPS,SSH                      | ●                                   | ●                                   | ●                                   | ●                                   |
| Super Ring, RSTP                       | ●                                   | ●                                   | ●                                   | ●                                   |
| MSR (RSR, RDH, Multi Ring)             | ●                                   | ●                                   | RSR                                 | RSR                                 |
| IGMP Snooping & IGMP Query             | ●                                   | ●                                   |                                     |                                     |
| Tag-VLAN                               | ●                                   | ●                                   |                                     |                                     |
| Quality of Service                     | ●                                   | ●                                   | ●                                   | ●                                   |
| SNMP V1/V2C/V3/RMON1                   | ●                                   | ●                                   |                                     |                                     |
| SMTP(e-mail warning)/Syslog            | ●                                   | ●                                   | ●                                   | ●                                   |
| IEEE802.1 AB LLDP                      | ●                                   | ●                                   |                                     |                                     |
| <b>Certifications</b>                  |                                     |                                     |                                     |                                     |
| Regulatory Approvals:CE / FCC / UL     | ●                                   | ●                                   | ●                                   | ●                                   |
| RoHS/WEEE                              | ●                                   | ●                                   | ●                                   | ●                                   |
| EN 50155 Railway                       |                                     |                                     |                                     |                                     |

## Korenix Product Selection Guide – Managed / Unmanaged Gigabit 24V Booster PoE Switch



JetNet 6810G-M12



JetNet 6810G-RJ



JetNet 3810G



JetNet 3806G

Managed Giga 24V PoE Switch

Giga 12~24V PoE Switch

| <b>Interface</b>                                 |                                     |                                     |                            |                  |
|--|-------------------------------------|-------------------------------------|----------------------------|------------------|
| Number of Ports:10/100Base-TX                    | 8 (M12)                             | 8 (RJ45)                            | 8                          | 4                |
| Number of Ports:10/100/1000Base-TX               | 2                                   | 2                                   | 2                          | 2                |
| Number of Ports: PoE Injector                    | Port 1~8                            | Port 1~8                            | Port 1~8                   | Port 1~4         |
| Number of Ports:100Base-FX<br>(Multi Mode Fiber) |                                     |                                     |                            |                  |
| (Single Mode Fiber)                              |                                     |                                     |                            |                  |
| PoE Wiring Pins                                  | 1,2,3,4                             | 1,2,3,6                             | 4,5,7,8                    | 4,5,7,8          |
| PoE Standard                                     | IEEE802.3 af PoE<br>Forced Mode PoE | IEEE802.3 af PoE<br>Forced Mode PoE | IEEE802.3 af PoE           | IEEE802.3 af PoE |
| Power Terminal                                   | DC 24~57V                           | DC 24~57V                           | DC12~24V                   | DC12~24V         |
| PoE Power per port                               | 15.4W                               | 15.4W                               | 15.4W                      | 15.4W            |
| Total Power Budget                               | 120W                                | 120W                                | 65W*                       | 60W*             |
| 24V Boost  | ●                                   | ●                                   | 12~24V Boost               | 12~24V Boost     |
| Power Jack                                       |                                     |                                     |                            |                  |
| Fault Relay Output                               | ●                                   | ●                                   | ●                          | ●                |
| HIPOT  | 1500VAC                             | 1500VAC                             |                            |                  |
| <b>Mechanical</b>                                |                                     |                                     |                            |                  |
| Rigid Aluminum Case                              | Steel Metal                         | Steel Metal                         | ●                          | ●                |
| Case Protection                                  | IP 30                               | IP 30                               | IP 31                      | IP 31            |
| Dimensions (unit=mm)                             | 145.2 (H) x 230.6 (W) x 121.7 (D)   |                                     | 69(W) x 149(H) x 120.5(D)* |                  |
| Operating Temperature                            | -40~60°C                            | -40~60°C                            | -25~60°C                   | -25~60°C         |
| DIN-Rail/ Wall Mount Kit                         | Wall Mount                          | Wall Mount                          | Din-Rail                   | Din-Rail         |
| Rackmount Kit                                    |                                     |                                     |                            |                  |
| <b>Protocols</b>                                 |                                     |                                     |                            |                  |
| Web-based Configuration                          | ●                                   | ●                                   |                            |                  |
| Windows Utility (JetView, JetView Pro)           | ●                                   | ●                                   |                            |                  |
| Secured HTTPS,SSH                                | ●                                   | ●                                   |                            |                  |
| Super Ring, RSTP                                 | ●                                   | ●                                   |                            |                  |
| MSR (RSR, RDH, Multi Ring)                       | ●                                   | ●                                   |                            |                  |
| IGMP Snooping & IGMP Query                       | ●                                   | ●                                   |                            |                  |
| Tag-VLAN   | ●                                   | ●                                   |                            |                  |
| Quality of Service                               | ●                                   | ●                                   | ●                          | ●                |
| SNMP V1/V2C/V3/RMON1                             | ●                                   | ●                                   |                            |                  |
| SMTP(e-mail warning)/Syslog                      | ●                                   | ●                                   |                            |                  |
| IEEE802.1 AB LLDP                                | ●                                   | ●                                   |                            |                  |
| <b>Certifications</b>                            |                                     |                                     |                            |                  |
| Regulatory Approvals:CE / FCC / UL               | CE/FCC                              | CE/FCC                              | CE/FCC                     | CE/FCC           |
| RoHS/WEEE  | ●                                   | ●                                   | ●                          | ●                |
| EN 50155 Railway                                 | Compliance                          | Compliance                          | Compliance                 | Compliance       |

\*Specifications may change without prior notice

## Korenix Product Selection Guide – PoE / Gigabit PoE Switch



JetNet 3710G



JetNet 3705



JetNet 3705f

Giga PoE Switch

PoE Switch

PoE Switch

| <b>Interface</b>                                 |                            |                             |                             |
|--|----------------------------|-----------------------------|-----------------------------|
| Number of Ports:10/100Base-TX                    | 8                          | 5                           | 84                          |
| Number of Ports:10/100/1000Base-TX               | 2                          |                             |                             |
| Number of Ports: PoE Injector                    | Port 1~8                   | Port 1~4                    | Port 1~4                    |
| Number of Ports:100Base-FX<br>(Multi Mode Fiber) |                            |                             | JetNet 3705f-m              |
| (Single Mode Fiber)                              |                            |                             | JetNet 3705f-s              |
| PoE Wiring Pins                                  | 4,5,7,8                    | 4,5,7,8                     | 4,5,7,8                     |
| PoE Standard                                     | IEEE802.3 af PoE           | IEEE802.3 af PoE            | IEEE802.3 af PoE            |
| Power Terminal                                   | DC48V                      | DC48V x 2                   | DC48V x 2                   |
| PoE Power per port                               | 15.4W                      | 15.4W                       | 15.4W                       |
| Total Power Budget                               | 65W*                       | 60W                         | 60W                         |
| 24V Boost  | ●                          | ●                           | ●                           |
| Power Jack                                       |                            | DC48V *1                    | DC48V *1                    |
| Fault Relay Output                               | ●                          | ●                           | ●                           |
| HIPOT  |                            | 1200VAC                     | 1200VAC                     |
| <b>Mechanical</b>                                |                            |                             |                             |
| Rigid Aluminum Case                              | ●                          | ●                           | ●                           |
| Case Protection                                  | IP 31                      | IP 31                       | IP 31                       |
| Dimensions (unit=mm)                             | 69(W) x 149(H) x 120.5(D)* | 164.8(W) x 33.8(H) x 108(D) | 164.8(W) x 33.8(H) x 108(D) |
| Operating Temperature                            | -25~70°C                   | -20~70°C                    | -10~70°C                    |
| DIN-Rail/ Wall Mount Kit                         | Din-Rail                   | ●                           | ●                           |
| Rackmount Kit                                    |                            |                             |                             |
| <b>Protocols</b>                                 |                            |                             |                             |
| Web-based Configuration                          | ●                          | ●                           |                             |
| Windows Utility (JetView, JetView Pro)           | ●                          | ●                           |                             |
| Secured HTTPS,SSH                                | ●                          | ●                           |                             |
| Super Ring, RSTP                                 | ●                          | ●                           |                             |
| MSR (RSR, RDH, Multi Ring)                       | ●                          | ●                           |                             |
| IGMP Snooping & IGMP Query                       | ●                          | ●                           |                             |
| Tag-VLAN   | ●                          | ●                           |                             |
| Quality of Service                               | ●                          | ●                           | ●                           |
| SNMP V1/V2C/V3/RMON1                             | ●                          | ●                           |                             |
| SMTP(e-mail warning)/Syslog                      | ●                          | ●                           |                             |
| IEEE802.1 AB LLDP                                | ●                          | ●                           |                             |
| <b>Certifications</b>                            |                            |                             |                             |
| Regulatory Approvals:CE / FCC / UL               | CE/FCC                     | CE/FCC                      | CE/FCC                      |
| RoHS/WEEE  | ●                          | ●                           | ●                           |
| EN 50155 Railway                                 | Compliance                 |                             |                             |

\*Specifications may change without prior notice

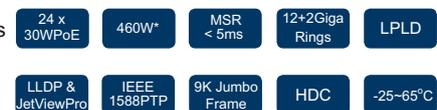
## ■ JetNet 5728G-24P / 5728G-16P / 5720G-8P

### Industrial Rackmount 24+4G Managed High Power IEEE802.3at PoE Switch

- Up to 24 10/100 BaseTX and 4 Gigabit uplink ports
- Up to 24 ports support both 15.4W IEEE 802.3af and the latest 30W high power IEEE 802.3at, including 2-event and LLDP classification
- Total power budget is 460W\* by IEEE 802.3at with maximum 30W per port
- Flexible-bandwidth and long-distance data transmission by SFP transceivers
- LPLD for reliable PoE connection through Active Powered Device status detection and auto reset function
- 12.8G Non-Blocking backplane, 16K MAC table for wire speed bidirectional switching
- IEEE 1588 PTP compliance for precise time synchronization
- Korenix patented MSR for aggregating up to 12 x 100Mb plus 2 Gigabit rings
- Supports up to 9,216 bytes Jumbo Frame for secured large file transmission
- IEEE 802.1AB LLDP and optional JetView Pro i<sup>2</sup>NMS software for auto-topology and large network group management
- IGMP Query v1/v2 & Snooping v1/v2/v3 for advanced multicast filtering
- Up to 255 VLAN traffic isolation
- Advanced network management features support SNMP, RMON
- Supports DHCP client/server, DHCP Option 82 for automatic IP configuration
- Dual redundant low voltage range: 48VDC(46~57VDC) and HDC range: 90~264VAC or 127~370VDC
- IP31 rugged aluminum case with great heat dispersion



CE FC  RoHS



### Overview

JetNet 5728G series is a rackmount High-Port Density Gigabit Managed IEEE 802.3at High Power PoE Switch, designed exclusively for highly critical PoE applications such as real time IP video surveillance with high resolution quality and the evolving wireless communication systems such as Wimax and 802.11 a/b/g/n APs. All of the 8, 16 or 24 Fast Ethernet PoE injector ports of the switches can deliver 15.4W by IEEE 802.3af or 30W by the latest High Power PoE IEEE 802.3at standard for upgrading the existing video network infrastructure to a powerful surveillance network. The 4 Gigabit Ethernet ports provide high speed uplink to connect with higher level backbone switches. With the Korenix patented MSR<sup>TM</sup> network redundancy technology, the switches can aggregate up to 12 fast

ethernet and 2 gigabit rings while providing high quality data transmission with less than 5ms link recovery time. Furthermore, to ensure the traffic switching without data loss and blocking, the JetNet 5728G series incorporates LLDP and perfectly works with the Korenix patented JetView Pro i<sup>2</sup>NMS for allowing administrators to automatically discover devices and efficiently manage the industrial network performance in large scale surveillance networks. With the advanced Layer2 management features including IGMP Query/Snooping, DHCP, 255 VLAN, QoS, LACP, etc. and the ruggedized fanless design, JetNet 5728G highly outstands from other PoE switches and becomes the revolutionary solution for industrial surveillance applications.

### Ordering Information

- JetNet 5728G-24P IP Surveillance 24+4G Managed 802.3at High Power PoE Switch with 24-port PoE
- JetNet 5728G-16P IP Surveillance 24+4G Managed 802.3at High Power PoE Switch with 16-port PoE
- JetNet 5720G-8P IP Surveillance 16+4G Managed 802.3at High Power PoE Switch with 8-port PoE

### Optional Accessories

- SDR-480-48: Industrial DC48V Power Supply, 90~264VAC/127 ~ 370VDC power input, -25~70°C

## JetNet 6710G-M12 / 6710G-RJ

### Industrial 8 PoE + 2G Managed M12/RJ45 High Power IEEE802.3at PoE Switch

- 8 10/100 Base TX PoE ports and 2 Gigabit uplink ports
- Solid M12 D-coded (JetNet 6710G-M12) or Rugged RJ45 Ethernet connectors ( JetNet 6710G-RJ) to protect from vibration applications such as PoE in Tram, Rail or Highway
- 8 PoE ports support both 15.4W IEEE 802.3af and the latest 30W high power IEEE802.3at by LLDP PoE classification
- Total power budget is 200W by IEEE 802.3at with maximum 30W per port
- All ports support Korenix patented RSR with 5ms recovery time, and MSR for up to 4 x 100M Rings plus 1 Gigabit Ring
- IEEE 802.1AB LLDP and optional JetView Pro i<sup>2</sup>NMS software for auto-topology and group management
- Tag-VLAN for multiple VLAN traffic isolation
- LACP port trunk for bandwidth aggregation in video surveillance
- Auto thermal detection and power budget control
- Redundant DC Power Inputs and Relay Output
- AC 1.5KV Hi-Pot Isolation Protection for ports and power
- EN50155 compliance (applying)
- -40~60°C wide operating temperature (802.3af)



JetNet 6710G-M12

JetNet 6710G-RJ

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## JetNet 5710G

### Industrial 8 PoE + 2G Managed High Power IEEE802.3at PoE Switch

- 8 10/100 Base TX PoE ports and 2 Gigabit uplink ports
- 8 PoE ports support both 15.4W IEEE 802.3af and the latest 30W high power IEEE802.3at by LLDP PoE classification
- Total power budget is 200W by IEEE 802.3at with maximum 30W per port
- All ports support Korenix patented RSR with 5ms recovery time, and MSR for up to 4 x 100M Rings plus 1 Gigabit Ring
- IEEE 802.1AB LLDP and optional JetView Pro i<sup>2</sup>NMS software for auto-topology and group management
- Tag-VLAN for multiple VLAN traffic isolation
- LACP port trunk for bandwidth aggregation in video surveillance
- Redundant DC Power Inputs and Alarm Relay Output
- AC 1.5KV Hi-Pot Isolation Protection for ports and power
- EN50155 compliance (applying)
- -40~70°C wide operating temperature (802.3af)



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## ■ JetNet 4706 / 4706f

### Industrial 6-port Managed High Power PoE (Fiber) Switch

- Four 10/100 TX Power over Ethernet ports and two redundant 10/100 TX/FX uplink ports
- Two Fiber links for long distance transmission (JetNet 4706f)
- DC 48V Power Input for IEEE 802.3af 48V PoE output
- Up to 25W per port for High Power solution by Power Input DC 55V (Forced powering mode)
- Up to 80W for total power budget (IEEE 802.3at)
- Support IEEE 802.3af for PoE detection and PoE classification resistors
- PoE control and schedule by hour/weekly basis
- Auto-detect Powered Device status for device auto-reset (LPLD)
- Patented Multiple Super Ring technology (MSR™), up to 5ms recovery time
- Patented Rapid Dual Homing (RDH™) technology
- SNMP v1/v2c/v3, IGMP snooping v1/v2/v3, RMON, VLAN, QoS
- Network security by IP/MAC address, SSL and SSH
- Built-in hardware watchdog timer for system auto-reset
- -40~60°C wide operating temperature



JetNet 4706



JetNet 4706f



## ■ JetNet 3706 / 3706f

### Industrial 6-port Web-Managed High Power PoE (Fiber) Switch

- Four 10/100 TX Power over Ethernet ports and two redundant 10/100 TX/FX uplink ports
- Two Fiber links for long distance transmission (JetNet 3706f)
- DC 48V Power Input for IEEE 802.3af 48V PoE output
- Up to 25W per port for High Power solution by Power Input DC 55V (Forced powering mode)
- Up to 80W for total power budget
- Support IEEE 802.3af for PoE detection and PoE classification resistors
- PoE control and schedule by hour/weekly basis
- Auto-detect Powered Device status for device auto- reset (LPLD)
- Patented Rapid Super Ring technology (RSR™), back up system recovery time up to 5ms
- Built-in hardware watchdog timer for system auto-reset
- -40~60°C wide operating temperature



JetNet 3706



JetNet 3706f



## JetNet 6810G-M12 / 6810G-RJ

### Industrial 8 PoE + 2G Managed M12/RJ45 Booster PoE Switch

- 8 10/100 Base TX PoE and 2 Gigabit uplink ports
- Solid M12 D-coded (JetNet 6810G-M12) or Rugged RJ45 Ethernet connectors ( JetNet 6810G-RJ) to protect from vibration applications such as PoE in Tram, Rail, or Highway
- 8 PoE ports support IEEE 802.3af standard with 120W total power budget / max. 15.4W per port
- Built-in Isolated 24V to 57V DC PoE Booster for vehicle use
- 32G switch Fabric, 8K MAC address
- All ports support Korenix patented RSR with 5ms recovery time, and MSR for up to 4 x 100M Rings plus 1 Gigabit Ring
- IEEE 802.1AB LLDP and optional JetView Pro i<sup>2</sup>NMS software for auto-topology and group management
- Tag VLAN for multiple VLAN traffic isolation
- LACP port trunk for bandwidth aggregation in video surveillance
- Auto Power Budget Control with Thermal Detection
- Redundant DC Power Inputs and Relay Output
- AC 1.5KV Hi-Pot Isolation Protection for ports and power
- EN50155 compliance (applying)
- -40~60°C wide operating temperature



JetNet 6810G-M12

JetNet 6810G-RJ

CE FC ~~RoHS~~ RoHS

- 8PoE+2G
- 24-57VDC Booster
- 120W
- MSR < 5ms
- 4+1G Rings
- LLDP & JetViewPro
- M12/RJ45
- EN 50155
- 40~60°C

## JetNet 3810G / 3806G

### Industrial 8/4 PoE + 2 GbE Booster PoE Switch

- Eight/Four 10/100 TX PoE plus two 10/100/1000TX uplink ports
- Vehicle PoE: DC 12V~24V input, deliver 8/4 port PoE @48V
- 802.3af compliant PoE: Total power budget is 65W/60W\* with max. 15.4W per port
- Two gigabit Ethernet ports for larger uplink bandwidth of surveillance
- Support QoS for optimizing video and VoIP stream
- Fault relay for active warning of port failure
- EN50155 compliance (applying)
- IP31 rugged aluminum case with great heat dispersion
- -25~60°C operating temperature



JetNet 3810G

JetNet 3806G

CE FC ~~RoHS~~ RoHS

- 2 Giga Uplink
- 12~48VDC Booster
- 65W/60W\*
- QoS
- IP 31
- EN 50155
- 25~60°C

\*Specifications may change without prior notice

## ■ JetNet 3710G

### Industrial 8 PoE + 2 GbE Switch

- Eight 10/100 TX PoE plus two 10/100/1000TX uplink ports
- DC 48V input, deliver 8 port PoE @48V
- 802.3af compliant PoE: Total power budget is 65W\* with max. 15.4W per port
- Two gigabit Ethernet ports for larger uplink bandwidth of surveillance
- Support QoS for optimizing video and VoIP stream
- Fault relay for active warning of port failure
- EN50155 compliance (applying)
- IP31 rugged aluminum case with great heat dispersing
- -25~70°C operating temperature



CE FC  RoHS



## ■ JetNet 3705 / 3705f

### Industrial 5-Port PoE (Fiber) Switch

- Four 10/100 TX Power Over Ethernet ports and one 10/100 TX /FX uplink port
- One fiber link for long distance transmission (JetNet 3705f)
- 15.4W Full Power Delivery per PoE Port
- Relay Alarm for Port Failure
- Terminal Block Power Input for Industrial Application.
- DC Jack Power Input for External Power Adapter
- End-Point PoE Architecture
- Easy Configuration by DIP Switch
- DIN-Rail/Wall-mounting and Desktop Installation
- -20~70°C (JetNet 3705) and -10~70°C (JetNet 3705f) operating temperature



JetNet 3705



JetNet 3705f

CE FC  RoHS



\*Specifications may change without prior notice

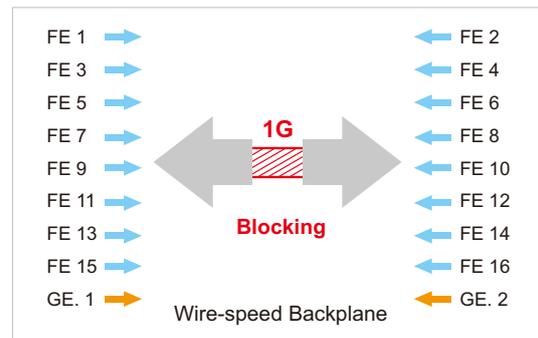
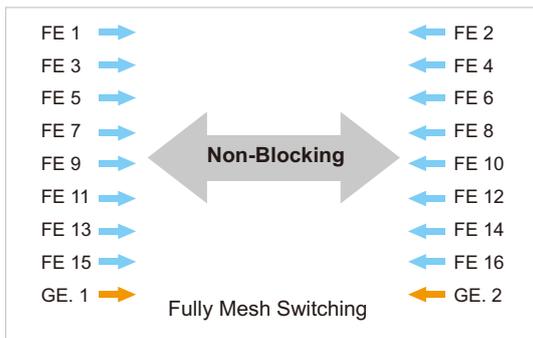
## JetNet Industrial L2 / L3 Rackmount / Rail Ethernet Switch

JetNet series provides complete Ethernet networking solutions ranging from rackmount IEC 61850-3-certified layer 2/3 and modular managed switches to high-bandwidth and high-speed DIN-rail Gigabit switches. Korenix JetNet series are designed with wide speed, non-blocking switching fabric to provide high-bandwidth and outstanding network performance. The managed models of JetNet series support advanced management features, including QoS, VLAN, IGMP, LLDP, JetView Pro Intelligent Network Management System as well as the Korenix patented ring technology, ensuring the most reliable and high-quality network construction in severe industrial applications.

### High Bandwidth and Performance

The switch backplane of high volume port switch solutions may not always afford to handle heavy loading when all ports transmit and receive data at the same time.

Korenix JetNet series are designed with the non-blocking switch fabric to provide wire-speed and fully mesh backplane which ensures the traffic switching without data loss and blocking.



### MSR, Reliable and Seamless Networking

In the traditional star topology with RSTP, any unexpected link failure would result in the loss of data. With Korenix patented MSR™ (Multiple Super Ring), any

link failure can be recovered in just 5ms. Hence, there can be no critical point in the Korenix network.



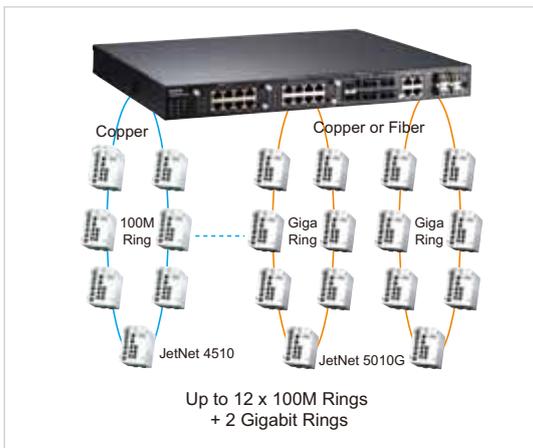
| Rapid Super Ring  | Rapid Dual Homing  | MultiRing   | TrunkRing  |
|---|--|---|--|
| <ul style="list-style-type: none"> <li>Ring Master auto-select</li> <li>Seamless restoration</li> <li>Ring Failure alarms/LED</li> <li>Failed ring port together with Ring Master</li> <li>Up to 5ms Recovery Time</li> <li>Backward compatible with legacy Super Ring</li> </ul> | <ul style="list-style-type: none"> <li>Multiple Uplink Paths</li> <li>One to One upper, Many to One upper, One to Many upper switches</li> <li>Seamless Restoration</li> <li>Korenix Patent protected</li> </ul> | <ul style="list-style-type: none"> <li>Couple 2 rings with shared unit</li> <li>Multiple up to 12 100M Rings &amp; 4G for 2 Gigabit rings @ 24+4G Switch</li> <li>Korenix Patent protected</li> </ul> | <ul style="list-style-type: none"> <li>Integrate Port Trunk/ LACP with MSR, RSR</li> <li>Load balancing of ring Ports</li> <li>Backup with each other</li> <li>Korenix Patent protected</li> </ul> |

## Exceeding the IEC 61850-3 & IEEE 1613 standards

Korenix IEC61850-3 and IEEE1613-certified switches have ESD and surge protection, provide anti-vibration and anti-shock operation as well as efficiently work under wide temperature range. In addition to the fan-less design, the JetNet switches support various power

input types for flexible use in field power constructions. Through modular slot design, they provide users with maximum flexibility through easy field installation in power utility substations.

## MultiRing Design for High Bandwidth Achievement

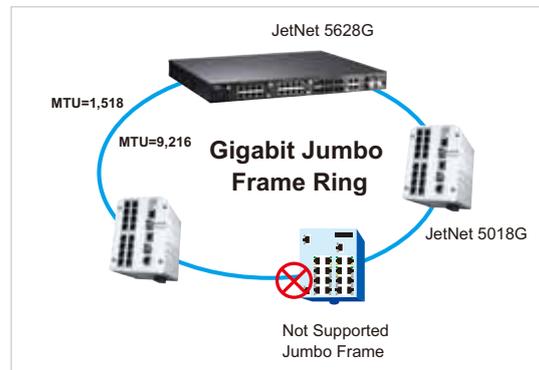
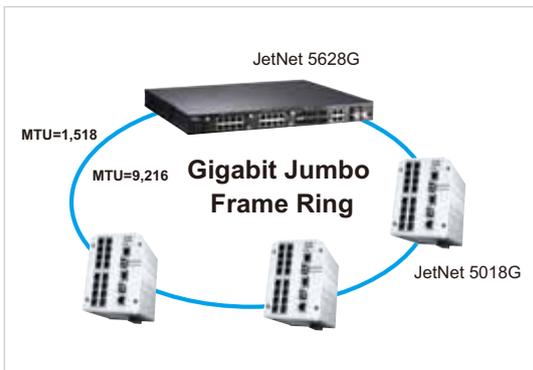


Korenix JetNet series support exclusive MultiRing design which allows aggregating multiple Rapid Super Rings within a single switch. With the MultiRing™ technology all the Fast Ethernet and Gigabit Ethernet ports can be part of the ring ports. This eliminates the need of additional links or settings to connect multiple rings.

## Exclusive Jumbo Frame Ring

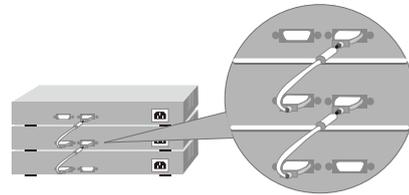
Typical Ethernet frame ranges from 64 to 1518 bytes. This is sufficient for general usage. However, when users need to transmit large files, the files may be divided into many small size packets. While the transmitting speed becomes slow, 9KBytes Jumbo frame can solve

the issue. Korenix provides complete Jumbo Frame supported switches for allowing users to easily form a Jumbo Frame Ring where larger files can be transmitted with fewer segments.



## Easy Stack Management

JetNet series are designed with simplified stack management interface, to provide up to 192 Gigabit ports per stack and 384G bandwidth for building extended networks. The easy stacking design greatly reduces administrators' workload through the simple management of the whole stack as a single switch, provides easy precedence configuration of each stack member, all these with no any topology recovery problem.



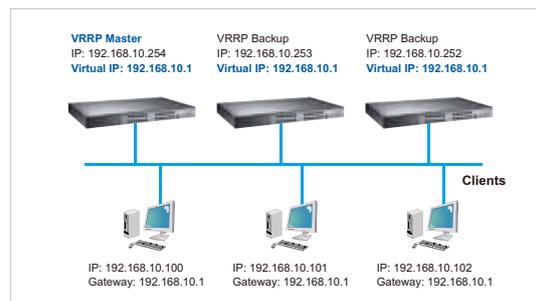
## Triple Layer 3 Routing

Korenix rackmount managed switches support complete Layer 3 routing functionalities, which allow users to easily configure multiple IP subnets through a single port or the VLAN interface, and then route these subnets using IP, VLAN and Multicast Routing protocols.

The switches also support RIPv1, v2 and OSPFv1, v2 dynamic routing protocols. Furthermore, featuring the L3 ACL, users can ensure advanced security of the networks by applying it to multiple subnets in different network groups.

## VRRP Layer 3 Default Gateway Redundancy

To ensure the high reliability of an environment, the JetNet Layer3 switches support the VRRP (Virtual Router Redundancy Protocol) protocol allowing the hosts to continuously direct traffic to the default gateway without the default gateway configuration change.



## LLDP and JetView Pro for Auto-Topology Visualization



Network management is critical for large scale network systems. JetNet series supports LLDP and perfectly works with JetView Pro, the Korenix patented intelligent NMS (Network Management System), to show the real-time network status, discover up to 1024 IP-enabled devices, including 3rd party devices, and automatically visualize topologies, deliver group management etc. The user-friendly software can be easily configured in response to any sudden events, as a result helping administrators efficiently and effectively manage the performance of the large-scale industrial networks.

## Outstanding Management and Enhanced Security

To meet the advanced management, control and security requirements for network communication in industrial applications, Korenix switches support layer 2 features, such as QoS, VLAN, IGMP snooping, DHCP Option82,

SNMPv3, Link Aggregation Control Protocol (LACP), etc. With the layer 2/4 ACL (Access Control List) function the switches ensure the highly secure data management.

## Korenix Product Selection Guide – Industrial Rack Mount Managed Gigabit Switch



JetNet 6524G  
JetNet 6524G-DC24/48



JetNet 5828G Series



JetNet 5628G Series



JetNet 5428G  
JetNet 5428G-DC



JetNet 5228G  
JetNet 5228G-DC

Layer 3 Stackable Managed Switch

Layer 3 Modular Managed Switch

Modular Managed Switch

Managed Ring Switch

Standalone Managed Switch

| Interface                          |   |   |   |                           |                   |
|------------------------------------|---|---|---|---------------------------|-------------------|
| Number of Ports: 10/100TX          |   | Max. 24                                       | Max. 24                                       | 24                        | 24                |
| Number of Ports: 10/100/1000TX     | 24  | 4   | 4   | 4                         | 4                 |
| Number of Ports: Fiber             | 4G Combo  | Max. 22 (18+4G)                               | Max. 22 (18+4G)                               | 4 (Gigabit)               | 4 (Gigabit)       |
| (Multi Mode Fiber)                 | Gigabit SFP   | 100-FX SC/SFP or Gigabit SFP                  | 100-FX SC/SFP or Gigabit SFP                  | Gigabit SFP               | Gigabit SFP       |
| (Single Mode Fiber)                | Gigabit SFP   | 100-FX SC/SFP or Gigabit SFP                  | 100-FX SC/SFP or Gigabit SFP                  | Gigabit SFP               | Gigabit SFP       |
| Console                            | ●   | ●   | ●   | ●                         | ●                 |
| AC Power Input                     | 90-264VAC(6524G)                                    | 85-264VAC*1(5828G)<br>85-264VAC*2(5828G-2AC)  | 85-264VAC*1(5828G)<br>85-264VAC*2(5828G-2AC)  | 90-264VAC (5428G)         | 90-264VAC (5228G) |
| DC Power Input                     | 24V(6524G-DC24)<br>48V(6524G-DC48)                  | 24/48VDC*2 (5828G)<br>88-370VDC*2(5828G-2HDC) | 24/48VDC*2 (5828G)<br>88-370VDC*2(5828G-2HDC) | 12-48V(5428G-DC)          | 12-48V(5228G-DC)  |
| Power Consumption                  | Max. 50Watt   | Max. 50Watt                                   | Max. 50Watt                                   | Max. 20Watt               | Max. 20Watt       |
| Fault Relay Output                 |   | 2 DI + 2 DO                                   | 2 DI + 2 DO                                   |                           |                   |
| Fan                                | 2 FAN(6524G)<br>Fanless(6524G-DC24/48)              | Fanless                                       | Fanless                                       | Fanless                   | Fanless           |
| Mechanical                         |   |   |   |                           |                   |
| 1U Rack Mount                      | ●   | ●   | ●   | ●                         | ●                 |
| F.E. Module                        |   | ●   | ●   |                           |                   |
| Dimension (Unit=mm)                | 44(H) x 438 (W) x 327 (D)                           | 44(H) x 438 (W) x 375 (D)                     | 44(H) x 438 (W) x 375 (D)                     | 44(H) x 438 (W) x 170 (D) |                   |
| Operating Temperature              | -10~55°C(JetNet 6524G)<br>-40~65°C(JetNet 6524G-DC) | -40~70°C                                      | -40~70°C                                      | -25~70°C                  | -25~70°C          |
| Rack-Mount Kit                     | ●   | ●   | ●   | ●                         | ●                 |
| Protocols                          |   |   |   |                           |                   |
| CLI/Web Configuration              | ●   | ●   | ●   | ●                         | ●                 |
| Jumbo Frame                        | ●   | ●   | ●   | ●                         | ●                 |
| Port Trunking                      | ●   | ●   | ●   | ●                         | ●                 |
| Network Redundancy                 | MSTP<br>MSR member                                  | MSR   | MSR   | MSR                       | MSTP              |
| IGMP Snooping & IGMP Query         | ●   | ●   | ●   | ●                         | ●                 |
| Tag-VLAN                           | ●   | ●   | ●   | ●                         | ●                 |
| Quality of Service                 | ●   | ●   | ●   | ●                         | ●                 |
| SNMP V1/V2c/V3                     | ●   | ●   | ●   | ●                         | ●                 |
| LLDP                               | ●   | ●   | ●   | ●                         | ●                 |
| IEEE1588 PTP                       |   | ●   | ●   | ●                         |                   |
| Layer2+ ACL                        | ●   | ●   | ●   | ●                         | ●                 |
| HTTPS,SSH,Port/IP Security, 802.1x | ●   | ●   | ●   | ●                         | ●                 |
| Layer 3 IP Routing                 | ●   | ●   |   |                           |                   |
| Multicast Routing                  | ●   | ●   |   |                           |                   |
| Certifications                     |   |   |   |                           |                   |
| Regulatory Approval: CE/FCC/UL     | ●   | ●   | ●   | ●                         | ●                 |
| IEC 61850-3                        |   | ●   | ●   |                           |                   |
| RoHS/WEEE                          | ●   | ●   | ●   | ●                         | ●                 |



## Korenix Product Selection Guide – Industrial Din Rail Managed Gigabit Ring Switch



JetNet 6059G (New)



JetNet 5018G (New)



JetNet 5012G (New)



JetCard 5010G-P



JetNet 5010G/5010G-w/  
JetNet 5010G-NEMA

Full Gigabit Managed Switch    Gigabit Managed Switch    Gigabit Managed Switch    Gigabit Managed Switch Board    Gigabit Managed Switch

### Interface

|                                |                       |                 |                 |                 |                         |
|--------------------------------|-----------------------|-----------------|-----------------|-----------------|-------------------------|
| Number of Ports: 10/100TX      |                       | 16              | 8               | 8               | 7                       |
| Number of Ports: 10/100/1000TX | 4 + 5 (Combo)         | 2(Combo)        | 2 (Combo)       |                 | 3 (Combo)               |
| Number of Ports: Fiber         | 5 (Gigabit&100FX SFP) | 2(Gigabit SFP)  | 4 (Gigabit SFP) | 2 (Gigabit SFP) | 3 (Gigabit&100FX SFP)   |
| (Multi Mode Fiber)             | Multi-mode SFP        | Multi-mode SFP  | Multi-mode SFP  | Multi-mode SFP  | Multi-mode SFP          |
| (Single Mode Fiber)            | Single-mode SFP       | Single-mode SFP | Single-mode SFP | Single-mode SFP | Single-mode SFP         |
| Console                        | Isolated              | ●               | ●               | ●               | ●                       |
| Power Input                    | DC 10.5~60V*2         | DC24*2(12-48V)  | DC24*2(12-48V)  | DC3.3V          | DC24*2(12-48V)/(10~60V) |
| Fault Relay Output             | ●                     | ●               | ●               | ●               | ●                       |
| HiPot                          | 1500VAC               | 1500VAC         | 1500VAC         |                 | 1200VAC                 |

### Mechanical

|                       |  |                         |                         |                             |  |
|-----------------------|--|-------------------------|-------------------------|-----------------------------|--|
| Aluminum Case         | ●  | ●                       | ●                       |                             | ●  |
| Protection            | IP31   | IP31                    | IP31                    |                             | IP31   |
| Dimension (Unit=mm)   | 160 (H) x 95 (W) x 136 (D)                           | 137(H) x 96(W) x 129(D) | 137(H) x 96(W) x 129(D) | 30(H) x 127.4(W) x 122.5(D) | 137(H) x 96(W) x 119(D)  |
| Operating Temperature | -25~75°C (JetNet 6059G)<br>-40~75°C (JetNet 6059G-w) | -25~70°C                | -25~70°C                | -25~70°C                    | -25~70°C (JetNet 5010G)<br>-40~70°C (JetNet 5010G-w)<br>-40~75°C (JetNet 5010G-NEMA) |
| Din Rail Mount        | ●  | ●                       | ●                       | ●                           | ●  |

### Protocols

|                                     |   |   |   |   |   |
|-------------------------------------|---|---|---|---|---|
| CLI/Web Configuration               | ● | ● | ● | ● | ● |
| JetView/JetView Pro                 | ● | ● | ● | ● | ● |
| Jumbo Frame                         |   | ● | ● | ● |   |
| Port Trunking                       | ● | ● | ● | ● | ● |
| Multiple Super Ring (RDH,TrunkRing) | ● | ● | ● | ● | ● |
| Maximum Ring                        | 4 | 9 | 6 | 5 | 5 |
| IGMP Snooping & IGMP Query          | ● | ● | ● | ● | ● |
| Tag-VLAN                            | ● | ● | ● | ● | ● |
| Quality of Service                  | ● | ● | ● | ● | ● |
| SNMP V1/V2c/V3                      | ● | ● | ● | ● | ● |
| LLDP                                | ● | ● | ● | ● | ● |
| IEEE1588 PTP                        | ● | ● | ● | ● |   |
| Layer2+ ACL                         |   | ● | ● | ● |   |
| HTTPS,SSH,Port/IP Security, 802.1x  | ● | ● | ● | ● | ● |

### Certifications

|                                |            |   |   |  |            |
|--------------------------------|------------|---|---|--|------------|
| Regulatory Approval: CE/FCC/UL | CE/FCC     | ● | ● |  | ●          |
| RoHS/WEEE                      | ●          | ● | ● |  | ●          |
| NEMA-TS2                       | Compliance |   |   |  | Compliance |

**Korenix Product Selection Guide – Industrial Din Rail Managed Switch**



JetNet 4510/4510-w  
JetNet 4510-NEMA



JetNet 4508



JetNet 4508f



JetNet 4010/4010-w



JetNet 4006



JetNet 4006f

|                                     | Managed Ethernet Switch   | Managed Ethernet Switch | Managed Ethernet Switch | Managed Ethernet Switch                            | Managed Ethernet Switch     | Managed Ethernet Switch                              |
|-------------------------------------|---|-------------------------|-------------------------|--|-----------------------------|--|
| <b>Interface</b>                    |   |                         |                         |  |                             |  |
| Number of Ports: 10/100TX           | 7   | 8                       | 6                       | 7  | 6                           | 4  |
| Number of Ports: 10/100/1000TX      | 3(10/100TX Combo)   |                         |                         | 3(10/100TX Combo)                                  |                             |  |
| Number of Ports: Fiber              | 3 (100FX SFP)   |                         | 2 (100FX SFP)           | 3 (100FX SFP)                                      |                             | 2 (100FX SFP)  |
| (Multi Mode Fiber)                  | Multi-mode SFP  | Multi-mode SFP          | Multi-mode SFP          | Multi-mode SFP                                     | Multi-mode SFP              | Multi-mode SFP                                       |
| (Single Mode Fiber)                 | Single-mode SFP   | Single-mode SFP         | Single-mode SFP         | Single-mode SFP                                    | Single-mode SFP             | Single-mode SFP                                      |
| Console                             | •   | •                       | •                       | •  | •                           | •  |
| Power Input                         | DC24*2(12-48V) / (10~60V)   | DC24*2(12-48V)          | DC24*2(12-48V)          | DC24*2(12-48V)                                     | DC24*2(12-48V)              | DC24*2(12-48V)                                       |
| Fault Relay Output                  | •   | •                       | •                       | •  | •                           | •  |
| HiPot                               | 1200VAC   | 1200VAC                 | 1200VAC                 | 1200VAC  |                             |  |
| <b>Mechanical</b>                   |   |                         |                         |  |                             |  |
| Aluminum Case                       | •   | •                       | •                       | •  | •                           | •  |
| Protection                          | IP31  | IP31                    | IP31                    | IP31   | IP31                        | IP31   |
| Dimension (Unit=mm)                 | 137(H) x 96(W) x 119(D)   | 135(H) x 53(W) x 105(D) |                         | 137(H) x 96(W) x 119(D)                            | 45.5(H) x 185.3(W) x 136(D) |  |
| Operating Temperature               | -25~70°C (JetNet 4510)<br>-40~70°C (JetNet 4510-w)<br>-40~75°C (JetNet 4510-NEMA) | -20~70°C                | -10~70°C                | -25~70°C (JetNet 4010)<br>-40~70°C (JetNet 4010-w) | -25~70°C                    | -10~60°C (JetNet 4006f)<br>-40~60°C (JetNet 4006f-w) |
| Din Rail Mount                      | •   | •                       | •                       | •  | •                           | •  |
| <b>Protocols</b>                    |   |                         |                         |  |                             |  |
| CLI/Web Configuration               | •   | •                       | •                       | Web Managed  | •                           | •  |
| JetView/JetView Pro                 | •   | •                       | •                       | JetView  | •                           | •  |
| Jumbo Frame                         |   |                         |                         |  |                             |  |
| Port Trunking                       | •   |                         |                         | •  | •                           | •  |
| Multiple Super Ring (RDH,TrunkRing) | •   | Super Ring              | Super Ring              | •  | •                           | •  |
| Maximum Ring                        | 5   | 1                       | 1                       | 5  |                             |  |
| IGMP Snooping & IGMP Query          | •   | •                       | •                       | •  | •                           | •  |
| Tag-VLAN                            | •   | •                       | •                       | •  | Port Based                  | Port Based   |
| Quality of Service                  | •   | •                       | •                       | •  | •                           | •  |
| SNMP V1/V2c/V3                      | •   | V1/V2c                  | V1/V2c                  | •  | •                           | •  |
| LLDP                                | •   |                         |                         | •  | •                           | •  |
| IEEE1588 PTP                        |   |                         |                         |  |                             |  |
| Layer2+ ACL                         |   |                         |                         |  |                             |  |
| HTTPS,SSH,Port/IP Security, 802.1x  | •   | IP Security             | IP Security             | •  | •                           | •  |
| <b>Regulatory</b>                   |   |                         |                         |  |                             |  |
| Regulatory Approval: CE/FCC/UL      | •   | •                       | •                       | •  | CE/FCC                      | CE/FCC   |
| RoHS/WEEE                           | •   | •                       | •                       | •  | •                           | •  |
| NEMA-TS2                            | Compliance  |                         |                         |  |                             |  |



## Korenix Product Selection Guide – Industrial Din Rail Switch



JetNet 3018G



JetNet 3010G



JetNet 3008



JetNet 3008f



JetNet 3006  
(New)



JetNet 3006f  
(New)



JetNet 2005



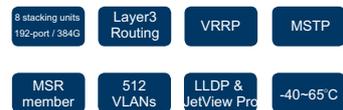
JetNet 2005f

|                                     | Gigabit Ethernet Switch |  | 8 Ports Ethernet Switch                           |   | 6 Ports Ethernet Switch   |   | 5 Ports Ethernet Switch  |   |
|-------------------------------------|-------------------------|--|---|---|---|---|--|---|
| <b>Interface</b>                    |                         |  |   |   |   |   |  |   |
| Number of Ports: 10/100TX           | 16                      | 7  | 8   | 6 | 6   | 4 | 5  | 4 |
| Number of Ports: 10/100/1000TX      | 2(Combo)                | Port 8,9-10/100/1000M<br>Port 10-1000M               |   |   |   |   |  |   |
| Number of Ports: Fiber              | 2(Gigabit SFP)          | 3 (Gigabit SFP)                                      | 2 (100FX)   |   | 2 (100FX)   |   | 1(100FX)   |   |
| (Multi Mode Fiber)                  | Multi-mode SFP          | Multi-mode SFP                                       | JetNet 3008f-m                                    |   | JetNet 3006f-m  |   | JetNet 2005f-m   |   |
| (Single Mode Fiber)                 | Single-mode SFP         | Single-mode SFP                                      | JetNet 3008f-s                                    |   | JetNet 3006f-s  |   | JetNet 2005f-s   |   |
| Console                             |                         |  |   |   |   |   |  |   |
| Power Input                         | DC24*2(12-48V)          | DC24*2(12-48V)                                       | DC24*2(12-48V)                                    |   | DC10-60V*2  |   | DC18-32V / AC18-27V  |   |
| Fault Relay Output                  | ●                       |  | ●   |   | ●   |   | ●  |   |
| HiPot                               | 1500VAC                 | 1200VAC  | 1000VAC   |   | 1500VAC   |   | 1500VAC  |   |
| <b>Mechanical</b>                   |                         |  |   |   |   |   |  |   |
| Aluminum Case                       | ●                       | ●  | ●   |   | ●   |   | ●  |   |
| Protection                          | IP31                    | IP31   | IP31  |   | IP30  |   | IP31   |   |
| Dimension (Unit=mm)                 | 137(H) x 96(W) x 129(D) | 137(H) x 96(W) x 119(D)                              | 120(H) x 55(W) x 108(D)                           |   | 120(H) x 55(W) x 108(D)   |   | 111.8(H) x 30(W) x 98.2(D)   |   |
| Operating Temperature               | -25~70°C                | -20~70°C (JetNet 3010G)<br>-40~70°C (JetNet 3010G-w) | -34~70°C (JetNet 3008)<br>-25~75°C (JetNet 3008f) |   | -25~75°C (JetNet 3006/3006f)<br>-40~75°C (JetNet 3006-w)<br>-40~75°C (JetNet 3006f-w) |   | -25~75°C (JetNet 2005)<br>-10~75°C (JetNet 2005f)<br>-40~75°C (JetNet 2005-w)<br>-40~75°C (JetNet 2005f-w) |   |
| Din Rail Mount                      | ●                       | ●  | ●   |   | ●   |   | ●  |   |
| <b>Protocols</b>                    |                         |  |   |   |   |   |  |   |
| CLI/Web Configuration               |                         |  |   |   |   |   |  |   |
| JetView/JetView Pro                 |                         |  |   |   |   |   |  |   |
| Jumbo Frame                         | ●                       |  |   |   |   |   |  |   |
| Port Trunking                       |                         |  |   |   |   |   |  |   |
| Multiple Super Ring (RDH,TrunkRing) |                         |  |   |   |   |   |  |   |
| Maximum Ring                        |                         |  |   |   |   |   |  |   |
| IGMP Snooping & IGMP Query          |                         |  |   |   |   |   |  |   |
| Tag-VLAN                            |                         |  |   |   |   |   |  |   |
| Quality of Service                  | ●                       | ●  | ●   |   | ●   |   |  |   |
| SNMP V1/V2c/V3                      |                         |  |   |   |   |   |  |   |
| LLDP                                |                         |  |   |   |   |   |  |   |
| IEEE1588 PTP                        |                         |  |   |   |   |   |  |   |
| Layer2+ ACL                         |                         |  |   |   |   |   |  |   |
| HTTPS,SSH,Port/IP Security, 802.1x  |                         |  |   |   |   |   |  |   |
| <b>Certifications</b>               |                         |  |   |   |   |   |  |   |
| Regulatory Approval: CE/FCC/UL      | ●                       | ●  | CE/FCC  |   | CE/FCC  |   | ●  |   |
| RoHS/WEEE                           | ●                       | ●  | ●   |   | ●   |   | ●  |   |
| NEMA-TS2                            |                         |  |   |   | Compliance  |   |  |   |

## JetNet 6524G / 6524G-DC24 / 6524G-DC48

### Industrial 24-Port Gigabit Stackable Layer 3 Managed Ethernet Switch

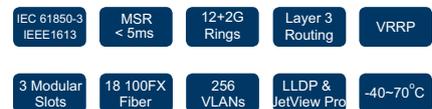
- 24-port 10/100/1000 BaseT with 4 Gigabit SFP combo ports
- 2 10G backplane for stacking up to 8 units with 192 ports and 384G bandwidth
- Supports IP, VLAN & Multicast routing
- IP Routing protocol supports RIP v1 / v2, OSPF v1/v2
- Supports L3 Multicast, PIM-DM and PIM-SM, DVMRP, IGMP v1/v2/v3
- Virtual Redundant Router Protocol (VRRP) for gateway redundancy
- Supports LLDP and JetView Pro i<sup>2</sup>NMS for network auto-topology visualization and efficient group management
- 802.1s Multiple Spanning Tree Protocol and 802.1w RSTP for network redundancy and MSR member mode
- Supports 512 VLANs, GVRP/GMRP, protocol VLAN
- 802.3ad LACP, up to 6 trunk groups, unicast and multicast load balance
- Supports L2 / L3 / L4 ACL (access control list)
- IEEE 802.1x Port-Based Authentication, RADIUS and TACACS client, SSH, SSL, TLS, Port binding
- FAN-less design with -40~65°C wide operating temperature (JetNet 6524G-DC)



## JetNet 5828G

### IEC61850-3 24+4G Layer 3 Modular Managed Ethernet Switch

- 3 exchangeable modular slots for adding up to 24 10/100-TX or 18 100Base-FX
- 4 On-Board Gigabit RJ45/SFP combo ports
- Exceeds IEC61850-3, IEEE1613 Power Substation Standards
- IEEE 1588 Precision Time Protocol for precise time synchronization
- Up to 9KB Jumbo Frame for large file transmission
- Korenix MSR pattern aggregates up to 12 x 100M Rings plus 2 Gigabit Rings
- Layer 3 IP, VLAN Routing & Multicast Routing
- Dynamic IP/Multicast routing protocol support RIPv1/v2, DVMRP and IGMP multicast management
- Advanced Routing Protocol, OSPF, PIM-SM/DM (Available Soon)
- 256 Tag based VLANs segregate IEC 61850 GOOSE message streams from each other
- 8 QoS priority for prioritizing the control and management packet from SCADA
- Supports LLDP and JetViewPro i<sup>2</sup>NMS software for auto-topology visualization and efficient group management
- Virtual Router Redundancy Protocol
- Secure system by 802.1x, IP/MAC Access Control List, SSH/HTTPS
- DHCP Option 82, DHCP Server for IP address assignment
- Advanced Network Management by SNMP, RMON, and event notifications
- Fan-Less design with -40~70°C wide operating temperature
- 85-264VAC, 88-370VDC, 24/48VDC power input



## JetNet 5628G

### IEC61850-3 24+4G Modular Managed Ethernet Switch

- 3 exchangeable modular slots for adding up to 24 10/100-TX or 18 100Base-FX
- 4 On-Board Gigabit RJ45/SFP combo ports
- Exceeds IEC61850-3, IEEE1613 Power Substation Standards
- IEEE 1588 Precision Time Protocol for precise time synchronization
- Non-Blocking backplane, 16K MAC table for wire speed bidirectional switching
- Up to 9KB Jumbo Frame for large file transmission
- Korenix MSR pattern aggregates up to 12 x 100M Rings plus 2 Gigabit Rings
- 256 Tag based VLANs segregate IEC 61850 GOOSE message streams from each other
- 8 QoS priority for prioritizing the control and management packet from SCADA
- IGMP Snooping, GMRP, Rate Control for multicast message management
- Supports LLDP and JetViewPro i<sup>2</sup>NMS software for auto-topology visualization and efficient group management
- Secure system by 802.1x, IP/MAC Access Control List, SSH/HTTPS
- DHCP Option 82, DHCP Server for IP address assignment
- Advanced Network Management by SNMP, RMON, and event notifications
- Fan-Less design with -40~70°C wide operating temperature
- 85-264VAC, 88-370VDC, 24/48VDC power input

Power Substation



CE FC UL LISTED RoHS



## JetNet 5428G / 5428G-DC

### Industrial 24+4G Rackmount Managed Ethernet Ring Switch

- 24-port 10/100-TX and 4-port Gigabit RJ-45/SFP combo ports (10/100/1000 Base-TX, 1000Base-X)
- Non-Blocking Switching Performance
- Supports Jumbo Frame up to 9,216 bytes
- RSTP and Multiple Super Ring (Rapid Super Ring, Rapid Dual Homing, MultiRing, TrunkRing) for network redundancy
- Maximum 12 x 100M Rings plus 2 Gigabit Rings aggregation capability
- 256 VLAN, LACP, GVRP, QoS, IGMP Snooping, GMRP, Rate Control, Online Multi Port mirroring
- Supports LLDP and JetViewPro i<sup>2</sup>NMS software for auto-topology visualization and efficient group management
- SNMP V1/V2c/V3, RMON for remote management
- Advanced Security system by IP/Port Security, 802.1x and Access Control List
- Event Notification by E-mail, SNMP Trap, Syslog and Relay Output
- Fan-Less design with -25~70°C wide operating temperature
- 90-264VAC or Dual 24V (12-48V) DC input

Industrial Rackmount



CE FC UL LISTED RoHS



## JetNet 5228G / 5228G-DC

### Industrial 24+4G Standalone Managed Ethernet Switch

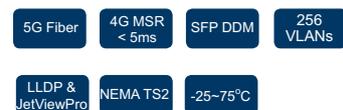
- 24 10/100-TX and 4 Gigabit RJ-45/SFP combo ports (10/100/1000 Base-TX, 1000 Base-X)
- Design for the Building, Control Room and Telecom applications
- Non-Blocking Switching performance
- Up to 9KB Jumbo Frame for large file transmission
- Supports LLDP and JetView Pro i<sup>2</sup>NMS for network auto-topology visualization and efficient group management
- 802.1s Multiple Spanning Tree Protocol for network redundancy
- SNMPv3, SSL, SSH management for remote management
- Advanced Security by 802.1x, Radius and Layer 2/4 Access Control List
- Advanced VLAN protocols, Protocol VLAN, Private VLAN and VLAN stacking (QinQ) for telecom service provider
- IP31 rugged aluminum case with great heat dispersing
- Fan-Less design with -25~70°C wide operating temperature
- 90-264VAC or 12-48VDC (JetNet 5228G-DC) power input



## JetNet 6059G / 6059-w

### Industrial 9-port Gigabit Managed Ethernet Switch

- 4 Gigabit copper ports, 5 Gigabit copper/SFP combo ports to extend Giga Copper/Fiber uplink or Giga Copper/Fiber Ring connection
- SFP ports support 100/1000 Fiber with Digital Diagnostic Monitoring (DDM) to monitor long distance fiber quality
- Independent SFP Link speed indication
- 32G switch Fabric, 8K MAC address to ensure High Quality Data transmission
- Isolated RS-232 Console port for negative power system
- Korenix MSR pattern aggregates up to 4 x 1000M Rings for critical data stream redundancy
- Supports LLDP and optional JetView Pro i<sup>2</sup>NMS software for network auto-topology visualization and efficient group management
- Advanced management by LACP/256 VLANs/GVRP/QoS/IGMP Snooping/ Rate Control/ Online Multi-Port Mirroring/DHCP option 82
- Advanced Security system by Port Security, Access IP list, SSH and HTTPS Login
- Event Notification through E-mail, SNMP trap and SysLog
- Cisco-Like CLI, Web, SNMP, RMON for network Management
- NEMA TS2 Compliance (Pending)
- Dual redundant 10.5~60VDC power inputs for system reliability
- AC 1.5KV Hi-pot isolation and -25~75°C operating temperature for harsh environments. -40~75°C (JetNet 6059G-w)



## JetNet 5018G

### Industrial 16+2G Gigabit Managed Ethernet Switch

- 16 10/100-TX and 2 Gigabit RJ-45/SFP combo ports (10/100/1000 Base-TX, 1000Base-X)
- Non-Blocking Switching Performance
- Korenix Multiple Super Ring pattern aggregates up to 9 Rapid Super Rings
- IEEE 1588 Precision Time Protocol for precise time synchronization
- Up to 9KB Jumbo Frame for large file transmission
- RSTP/STP, 256 802.1Q VLAN, QoS and up to 8 trunk groups
- IGMP Snooping, GMRP Rate Control for multicast message management
- Supports LLDP and JetViewPro i<sup>2</sup>NMS software for auto-topology visualization and efficient group management
- SNMP V1/V2c/V3, RMON for remote management
- Advanced Security supports IP/Port Security, 802.1x and Access Control List
- Dual 24V (12-48V) DC power inputs
- IP31 rugged aluminum case
- Operating temperature -25~70°C



## JetNet 5012G

### Industrial 8+4G Gigabit Managed Ethernet Switch

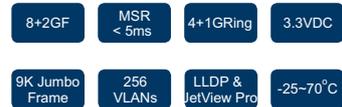
- 8 10/100-TX, 2 Gigabit SFP and 2 Gigabit RJ-45/SFP combo ports (10/100/1000 Base-TX, 1000Base-X)
- Non-Blocking Switching Performance
- Korenix Multiple Super Ring pattern aggregates up to 2 Gigabit and 4 100M Rings
- IEEE 1588 Precision Time Protocol for precise time synchronization
- Up to 9KB Jumbo Frame for large file transmission
- RSTP/STP, 256 802.1Q VLAN, QoS and up to 6 trunk groups
- Supports LLDP and JetViewPro i<sup>2</sup>NMS software for auto-topology visualization and efficient group management
- SNMP V1/V2c/V3, RMON for remote management
- IGMP Snooping, GMRP, Rate Control for multicast message management
- Advanced Security supports IP/Port Security, 802.1x and Access Control List
- Dual 24V (12-48V) DC power inputs
- IP31 rugged aluminum case
- Operating temperature -25~70°C



## JetCard 5010G-P

### 8+2GF Gigabit Embedded Managed Switch Board

- Embedded Managed Switch Board with 127.4 mm (W) x 122.5mm(D), under 30mm(H) board size
- 8 10/100Base-TX plus 2 Gigabit SFP ports (1000Base-X Fiber)
- 3.3V DC Power Input socket
- Korenix Multiple Super Ring and RSTP for network redundancy
- Supports LLDP and JetView Pro i<sup>2</sup>NMS software for auto-topology visualization and efficient group management
- Jumbo Frame up to 9,216 Bytes for large packet transmission
- SNMPv1/v2/v3c, RMON for remote management
- Advanced management by up to 8K MAC Table, 256 802.1Q VLAN, IGMP
- Snooping, GMRP, port Trunking, LACP, DHCP Server, DHCP Option 82 and Rate Control
- Advanced security by 802.1x and Access Control List
- Operating temperature -25~70°C



## JetNet 5010G / 5010G-w / 5010G-NEMA

### Industrial 7+3G Gigabit Managed Ethernet Switch

- 7 10 / 100-TX ports and 3 Gigabit RJ-45/SFP combo ports (10 / 100 / 1000 Base-TX, 100 Base-FX, 1000 Base-X)
- SFP ports support 100/1000 Fiber with Digital Diagnostic Monitoring (DDM) to monitor long distance fiber quality
- Multiple Super Ring (recovery time <5ms), Rapid Dual Homing, Multiple Ring, and RSTP
- VLAN, GVRP, QoS, IGMP Snooping V1/V2/V3, Rate Control, Port Trunking, LACP, Online Multi-Port Mirroring
- 32Gbps Non-Blocking, switch bach plane 8K MAC address table
- Supports LLDP and JetViewPro i<sup>2</sup>NMS software for auto-topology visualization and efficient group management
- Supports console CLI , Web, SNMP V1/V2c/V3, RMON, HTTPS, SSH for remote management
- Advanced security feature supports IP Security, Port Security,
- DHCP Server, IP and MAC Binding, 802.1x network access control
- Event Notification by E-mail, SNMP trap, Syslog, Digital Input and Relay Output
- NEMA TS2 Compliance (Pending)
- Dual 12-48VDC /10~60VDC (JetNet 5010G-NEMA) power inputs
- IP31 rugged aluminum case
- Operating temperature -25~70°C for JetNet 5010G, -40~70°C for JetNet 5010G-w and -40~75°C for JetNet 5010G-NEMA



## JetNet 4510 / 4510-w / 4510-NEMA

### Industrial 10-port Managed Fast Ethernet Switch

- 7 10/100 Base TX and 3 RJ-45/SFP combo (10/100Base-TX, 100Base-FX )
- SFP ports support 100/1000 Fiber with Digital Diagnostic Monitoring (DDM) to monitor long distance fiber quality
- Multiple Super Ring (recovery time <5ms), Rapid Dual Homing, Multiple Ring, and RSTP
- VLAN, GVRP, QoS, IGMP Snooping V1/V2/V3, Rate Control, Port Trunking, LACP, Online Multi-Port Mirroring
- 3.2Gbps Non-Blocking, 8K MAC address table
- Supports LLDP and JetViewPro i<sup>2</sup>NMS software for auto-topology visualization and efficient group management
- Supports console CLI , Web, SNMP V1/V2c/V3, RMON, HTTPS, SSH for remote management
- Advanced security feature supports IP Security, Port Security,
- DHCP Server, IP and MAC Binding, 802.1x network access control
- Event Notification by E-mail, SNMP trap, Syslog, Digital Input and Relay Output
- NEMA TS2 Compliance (Pending)
- Dual 12-48VDC /10~60VDC (JetNet 4510-NEMA) power inputs
- IP31 rugged aluminum case
- Operating temperature -25~70°C for JetNet 4510, -40~70°C for JetNet 4510-w and -40~75°C for JetNet 4510-NEMA



CE FC cUL<sub>US</sub> LISTED RoHS

- 3 SFP Combo
- SFP DDM
- MSR < 5ms
- LLDP & JetView Pro
- Dual 10~60VDC
- NEMA TS2
- 25~70°C

## JetNet 4508 / 4508f

### Industrial 8-port Managed Fast Ethernet (Fiber) Switch

- 8-port 10/100 TX managed fast Ethernet switch (JetNet 4508)
- 6-port 10/100 TX and 2 100Base-FX fiber ports, single-mode Fiber up to 30KM (JetNet 4508f)
- 3.2Gbps Switch Fabric with excellent data exchange performance
- Super Ring technology, back up system recovery time less than 20ms and up to 250 sets, Dual Homing and Couple Ring
- SNMP v1/v2c, IGMP snooping v1/v2, RMON, VLAN, QoS, Rate control for network management
- Support 1.2KV Hi-Pot isolation protection
- Dual DC 12~48V power inputs
- Fault relay alarm
- Aluminum case with IP-31 grade protection
- Operating temperature -20~70°C for JetNet 4508, -10~70°C for JetNet 4508f



JetNet 4508

JetNet 4508f

CE FC cUL<sub>US</sub> LISTED RoHS

- Dual Fiber
- RSR < 20ms
- Alarm

## ■ JetNet 4010 / 4010-w

### Industrial 10-port Web-Managed Fast Ethernet Switch

- 7 10/100 Base TX and 3 RJ-45/SFP combo (10/100Base-TX, 100Base-FX )
- Multiple Super Ring (recovery time <5ms), Rapid Dual Homing, Multiple Ring, and RSTP
- VLAN, GVRP, QoS, IGMP Snooping V1/V2/V3, Rate Control, Port Trunking, LACP, Online Multi-Port Mirroring
- Non-Blocking, 8K MAC address table
- Supports IEEE 802.1AB LLDP for Automatic topology discovery
- Supports console CLI , Web, HTTPS, SSH and JetView
- Advanced security feature supports IP Security, Port Security,
- DHCP Server, IP and MAC Binding, 802.1x network access control
- Event Notification by E-mail, Syslog, Digital Input and Relay Output
- Redundant power inputs 12~48VDC
- IP31 rugged aluminum case
- Operating temperature -25~70°C for JetNet 4010, -40~70°C for JetNet 4010-w



CE FC cULus LISTED RoHS

MSR < 5ms LLDP Dual 12~48VDC -25~70°C

## ■ JetNet 4006 / 4006f

### Industrial 6-port Managed Fast Ethernet Ring Switch

- 4 10/100 Base TX ports plus 2 redundant 10/100 Base TX uplink ports (JetNet 4006)
- 4 10/100 Base TX ports plus 2 redundant 10/100 Base FX uplink ports (JetNet 4006f)
- Patented Multiple Super Ring - Network Recovery time < 5 ms
- Patented Rapid Dual Homing – compatible with RSTP
- Supports LLDP and JetViewPro i<sup>2</sup>NMS software for auto-topology visualization and efficient group management
- Supports SNMP, Web, Telnet and JetView Pro for remote management
- Port-Based VLAN with Tag Modification for efficient traffic transmission
- DHCP Client/Server/ DHCP Relay (Option 82) for automatic IP configuration
- IEEE 802.1p QoS with CoS, DSCP scheme for high-priority data traffic
- IGMP Snooping with Query Mode for optimized multicast forwarding
- DC 12~48V Redundant power input with polarity reverse protection
- Operating temperature -25~70°C for JetNet 4006, -10~60°C for JetNet 4006f (JetNet 4006f-w: -40~60°C available by request)

JetNet 4006



JetNet 4006f

CE FC RoHS

Dual Fiber MSR < 5ms LLDP & JetViewPro DHCP Option 82

## JetNet 3018G Industrial 16+2G Gigabit Ethernet Switch

- 16 10/100-TX and 2 Gigabit RJ-45/SFP combo ports (10/100/1000 Base-TX, 1000Base-X)
- Non-Blocking Switching Performance
- Supports up to 9,216 bytes Jumbo Frame Packet for secured large file transmission
- 2 Relay Outputs for Gigabit port Link Failure Detection
- IEEE 802.1p Quality of Service (QoS) for packet forwarding precedence
- Auto Gigabit RJ-45/SFP module detection
- IP31 rugged aluminum case
- Dual 24V (12-48V) DC power inputs
- Operating temperature -25~70°C



CE FC cUL<sup>us</sup> LISTED RoHS

Giga SFP Combo 9K Jumbo Frame Alarm -25~70°C

## JetNet 3010G / 3010G-w Industrial 7+3G Gigabit Ethernet Switch

- 7 10/100 TX ports and 3 Gigabit RJ-45/SFP combo ports
- 32Gbps Switch Fabric with excellent data exchange performance
- Auto Gigabit RJ-45/SFP module detection
- IEEE 802.1p Quality of Service (QoS) for packet forwarding precedence
- IP31 rugged aluminum case
- Supports 1.2KV Hi-Pot isolation protection
- Dual 24V (12~48V) DC power inputs
- Operating temperature -20~70°C (-40~70°C wide temperature available by request)



CE FC cUL<sup>us</sup> LISTED RoHS

3 Giga SFP Combo QoS 1.2KV Hi-Pot -20~70°C

## JetNet 3008 / 3008f

### Industrial 8-port Fast Ethernet (Fiber) Switch

- 8 10/100TX Ports with Auto MDI/MDI-X (JetNet 3008)
- 4 10/100 Base TX ports plus 2 Fast Ethernet Fiber ports (JetNet 3008f)
- 2.0Gbps Switch Fabric with excellent data exchange performance
- IEEE 802.1p Quality of Service (QoS) for packet forwarding precedence
- Dual DC12~48V power inputs
- Broadcast storm packet filtering
- Port and power event alarm
- Supports AC 1.5KV Hi-pot isolation protection
- IP-31 rugged aluminum case
- Operating temperature -34~70°C for JetNet 3008, -25~75°C for JetNet 3008f



JetNet 3008

JetNet 3008f

CE FC ~~RoHS~~

Dual Fiber QoS Alarm

1.5KV Hi-Pot -34~70°C

## JetNet 3006 / 3006f

### Industrial 8-port Fast Ethernet (Fiber) Switch

- 6 10/100TX Ports with Auto MDI/MDI-X (JetNet 3006)
- 4 10/100 Base TX ports plus 2 Fast Ethernet Fiber ports (JetNet 3006f)
- 3.2Gbps Switch Fabric
- Port and power event alarm
- NEMA TS2 compliance
- Dual DC10~60V power inputs
- Supports AC 1.5KV Hi-pot isolation protection
- IP-30 rugged aluminum case
- Operating temperature -25~75°C  
(-40~75°C wide temperature available by request)



JetNet 3006

JetNet 3006f

CE FC ~~RoHS~~

Dual Fiber Alarm NEMA TS2

1.5KV Hi-Pot Dual 10-60VDC -25~75°C

## JetNet 2005 / 2005f

### Industrial 5-port Compact Fast Ethernet (Fiber) Switch

- 5 10/100TX Ports with Auto MDI/MDI-X (JetNet 2005)
- 4 10/100 Base TX ports plus 1 Fast Ethernet Fiber ports (JetNet 2005f)
- Slim-sized for Industrial Din-rail Application
- Redundant 18~27VAC or 18~32VDC Power Inputs
- Relay Output for Port Alarm
- Supports AC 1.5KV Hi-pot isolation protection
- IP-31 rugged aluminum case
- Operating temperature -25~70°C for JetNet 2005, -10~60°C for JetNet 2005f  
(JetNet 2005-w / 2005f-w: -40~75°C available by request)



JetNet 2005

JetNet 2005f

CE FC ~~RoHS~~

Dual Fiber 18~27VAC 18~32VDC 1.5KV Hi-Pot Alarm

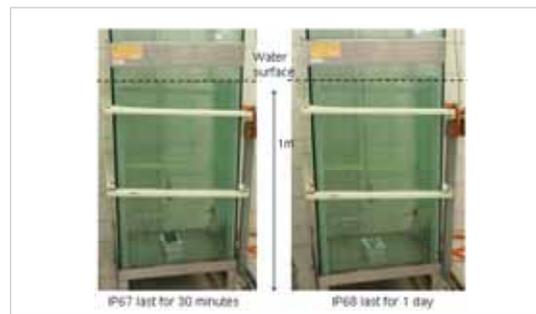
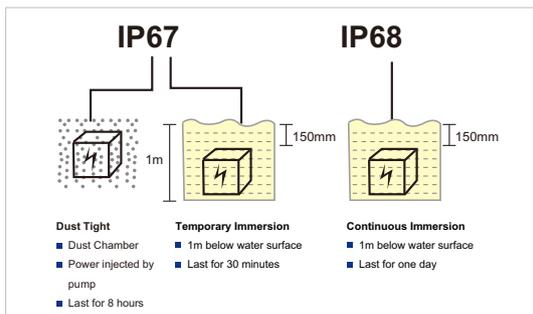
## JetRock Series IP67 / 68 Industrial Ethernet Switch

JetRock series is designed to provide ultra rugged and long-life protection against the roughest industrial conditions without the need of additional shelters. The totally sealed enclosure achieves the highest level of protections-IP67 and IP68. JetRock Series is equipped with rugged RJ45 and M12 connectors for a secured, robust connection under the most brutal environments. With intelligent management features and robust design of JetRock, reliable data transmission is guaranteed despite the harsh environmental conditions.

### IP67 / IP68 Degree of Protection

IP code, known as International Protection or Ingress Protection, is defined in the international IEC standard 60529 - "Degrees of protection provided by the enclosure". The level of protection is presented by two characteristic numerals. The first one indicates the protection against ingress of solid foreign objects, such as hands or fingers, and even sand and dust. The lowest level is 0 and the highest is 6. The highest level is dust

tight which means that dust can be completely insulated by the enclosure. The second one represents the protection against ingress of water, rated from non-protected (0) to continuous immersion (8). JetRock series are IP67 and IP68 compliant, which indicates that the switches are totally protected against dust and are immersion-proof for delivering the highest level of protection without additional shelters.



### Ultra Rugged, Long-Life Enclosure

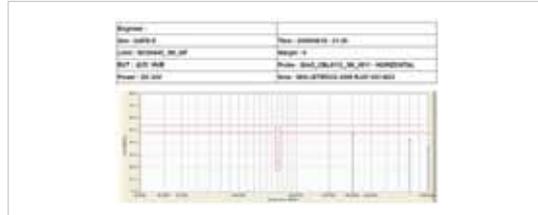
While IP67/IP68 represents highest level of protection against ingress of water, oil and dust, it does not mean ruggedness and robustness. Cases made of plastic, for example, can be easily molded to meet a high IP rating. However, the plastic case is prone to crack or distort in shape, which can lead to IP level degradation when subjected to heavy shock and impacts. The poor thermal conductivity also makes it less suitable for fan-less system operation within high temperature environments. The JetRock series enclosure provides the strongest construction suitable to withstand the toughest workplaces. The case is constructed with high grade

aluminum for the protection against impact and shock without any shape distortion. The case allows heat dissipation with fan less and sealed design. Moreover, the noncombustible material ensures the release of any toxic fumes when exposed to high temperatures. With excellent electrical conductivity it resists accumulations of electrostatic sparks which may cause explosive substances to ignite. JetRock series conforms to UL1604, ANSI/ISA 12.12.01-2007 and is ideal to be installed in hazardous locations such as petroleum refineries, gasoline storage mining, and oil drilling.

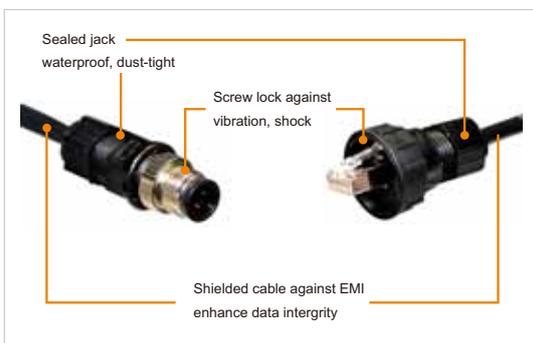
| Comparison of Aluminum, Molded Plastic and Steel |                |   |  |
|--|----------------|---|--|
| Property   | Aluminum       | Molded Plastic  | Steel  |
| Strength to Weight Ratio                         | Very Good      | Low-good  | Good   |
| Corrosion Resistance                             | Excellent      | Excellent   | Poor; requires coating for corrosion consideration |
| Thermal Conductivity                             | Excellent      | Poor  | Poor   |
| Combustibility                                   | Noncombustible | Combustible; may emit toxic fumes when exposed to high temperatures | Noncombustible                                     |

## Low EMI Radiation for Maritime Safety

With advanced and professional experience in electric circuit design by Korenix, JetRock series has proved to comply with the strict DNV EMI standard. JetRock series operates with mild EMI and does not interfere with sophisticated marine communications and navigation equipments, which is ideal for maritime surveillance.



## Robust Connection



While commercial RJ45 connectors are widely used for their ease of use, they're not designed to withstand regular or severe vibration and shock which often occurs within industrial environments. Furthermore, they are neither waterproof nor dust-tight. JetRock series is designed with IP67 rated RJ45 and IP68 rated M12 connectors, which provide the most rugged connection for harsh industrial applications. The screw cam design compresses and seals the jack, which guarantees protection against water and dust. The screw cam connector also produces a strong ridge connection to eliminate link loss as a result of extreme vibration and shock. In combination with STP cable, the overall link is protected against EMI to ensure data integrity.

## Total Solutions for Rugged Usage

JetRock series provides total solutions for rugged industrial usage. Managed and unmanaged switches, or PoE-enabled a switch for various applications. The managed models of JetRock support ring redundancy, traffic isolation, traffic shaping, and traffic prioritization to meet the requirements of network management and deterministic real-time transmission, while the unmanaged versions provide the plug-and-play usages. The unmanaged PoE-enabled JetRock can deliver power safely to areas where traditional power

|           | IP67           | IP68            |
|-----------|----------------|-----------------|
| Managed   | JetNet 4506-RJ | JetNet 4506-M12 |
| Unmanaged | JetNet 3006-RJ | JetNet 3006-M12 |
| PoE       | JetNet 3706-RJ |                 |

is inaccessible. Korenix introduces the lighter version of JetRock Series as well, the unmanaged switches for cost-effective network constructions in moving vehicles.

## Various Locations & Critical Applications

### Example locations of JetRock are:

- Outdoors
- Ship, offshore
- Railways, moving vehicles
- Hazardous location, such as oil drilling, gas stations, coal mines
- Food, beverage industry
- Drug manufacturing
- Plant floor and field level

### And the applications could be:

- Outdoor IP surveillance
- Outdoor WiMax, WLAN
- Roadside traffic monitor and control
- Weather monitor
- Dam monitor and control
- Display boards
- Process control
- Factory automation



## Korenix Product Selection Guide – Industrial Managed IP67 / IP68 Ethernet Switch



JetNet 4506-RJ



JetNet 4506-M12



JetNet 3006-RJ



JetNet 3006-M12

Managed IP67 / 68 Switch

Redundant-Ring IP67 / 68 Switch

| <b>Interface</b>                |                               |                   |                               |                   |
|---------------------------------|-------------------------------|-------------------|-------------------------------|-------------------|
| Number of Ports: 10/100Base-TX  | 6                             | 6                 | 6                             | 6                 |
| Number of Ports: PoE Injector   |                               |                   |                               |                   |
| PoE Wiring                      |                               |                   |                               |                   |
| PoE Power                       |                               |                   |                               |                   |
| Power Connector                 | DC24V x 2 (12~48)             | DC24V x 2 (12~48) | DC24V x 2 (12~48)             | DC24V x 2 (12~48) |
| Fault Relay Output              | •                             | •                 |                               |                   |
| 1200VAC HIPOT                   | •                             | •                 | •                             | •                 |
| <b>Mechanical</b>               |                               |                   |                               |                   |
| Ultra Rigid Aluminum Case       | •                             | •                 | •                             | •                 |
| Case Protection                 | IP67                          | IP68              | IP67                          | IP68              |
| Dimensions (mm)                 | 213.6(H) x 106.0(W) x 56.5(D) |                   | 213.6(H) x 106.0(W) x 56.5(D) |                   |
| Operating Temperature           | -25~70°C                      | -25~70°C          | -25~70°C                      | -25~70°C          |
| Wall Mounting                   | •                             | •                 | •                             | •                 |
| Optional Bracket Din-Rail Mount | •                             | •                 | •                             | •                 |
| <b>Protocols</b>                |                               |                   |                               |                   |
| Web-based Configuration         | •                             | •                 |                               |                   |
| JetView                         | •                             | •                 |                               |                   |
| Secured HTTPS, SSH              | •                             | •                 |                               |                   |
| MSR, RSTP                       | •                             | •                 | MSR member                    | MSR member        |
| Couple Ring, Dual Homing        | •                             | •                 |                               |                   |
| IGMP Snooping & IGMP Query      | •                             | •                 |                               |                   |
| Port-Based VLAN                 | •                             | •                 |                               |                   |
| Quality of Service              | •                             | •                 | •                             | •                 |
| DHCP with Option 82             | •                             | •                 |                               |                   |
| SNMP v1/v2c/v3                  | •                             | •                 |                               |                   |
| RMON1                           | •                             | •                 |                               |                   |
| IEEE 802.1 AB LLDP              | •                             | •                 |                               |                   |
| SMTP (email warning)            | •                             | •                 |                               |                   |
| Syslog                          | •                             | •                 |                               |                   |
| <b>Certifications</b>           |                               |                   |                               |                   |
| Regulatory Approvals: CE/FCC/UL | •                             | •                 | •                             | •                 |
| RoHS/WEEE                       | •                             | •                 | •                             | •                 |
| EN50155 Railway                 | Compliance                    | Compliance        | Compliance                    | Compliance        |

**Korenix Product Selection Guide – Industrial IP67 / IP68 Ethernet Switch**



JetNet 3706-RJ



JetNet 2006-RJ



JetNet 2006-M12

PoE IP67Switch

Rugged RJ45 / M12 Switch

| <b>Interface</b>                |                               |                          |                   |
|---------------------------------|-------------------------------|--------------------------|-------------------|
| Number of Ports: 10/100Base-TX  | 6                             | 6                        | 6                 |
| Number of Ports: PoE Injector   | 4                             |                          |                   |
| PoE Wiring                      | 4,5,7,8                       |                          |                   |
| PoE Power                       | 15.4W x 4                     |                          |                   |
| Power Connector                 | DC44~57V x 2                  | DC24V x 2 (12~48)        | DC24V x 2 (12~48) |
| Fault Relay Output              |                               |                          |                   |
| 1200VAC HIPOT                   | ●                             | ●                        | ●                 |
| <b>Mechanical</b>               |                               |                          |                   |
| Ultra Rigid Aluminum Case       | ●                             |                          |                   |
| Case Protection                 | IP67                          | IP31                     | IP31              |
| Dimensions (mm)                 | 213.6(H) x 106.0(W) x 56.5(D) | 213(H) x 89(W) x 39.3(D) |                   |
| Operating Temperature           | -40~70°C                      | -25~70°C                 | -25~70°C          |
| Wall Mounting                   | ●                             | ●                        | ●                 |
| Optional Bracket Din-Rail Mount | ●                             |                          |                   |
| <b>Protocols</b>                |                               |                          |                   |
| Web-based Configuration         |                               |                          |                   |
| JetView                         |                               |                          |                   |
| Secured HTTPS, SSH              |                               |                          |                   |
| MSR, RSTP                       |                               |                          |                   |
| Couple Ring, Dual Homing        |                               |                          |                   |
| IGMP Snooping & IGMP Query      |                               |                          |                   |
| Port-Based VLAN                 |                               |                          |                   |
| Quality of Service              |                               | ●                        | ●                 |
| DHCP with Option 82             |                               | IEEE 802.1p              | IEEE 802.1p       |
| SNMP v1/v2c/v3                  |                               |                          |                   |
| RMON1                           |                               |                          |                   |
| SMTP (email warning)            |                               |                          |                   |
| Syslog                          |                               |                          |                   |
| <b>Certifications</b>           |                               |                          |                   |
| Regulatory Approvals: CE/FCC/UL | CE / FCC                      | ●                        | ●                 |
| RoHS/WEEE                       | ●                             | ●                        | ●                 |
| EN50155 Railway                 | Compliance                    | Compliance               | Compliance        |

## JetNet 4506-RJ

### Industrial 6-Port Managed RJ45/IP67 Ethernet Switch

- IP67 waterproof, dust-tight, corrosion resistant for extreme environment
- M12 and Rugged RJ45 Connector for anti-vibration and shock
- Ultra rugged enclosure for toughest industrial usages
- Six 10/100 TX auto-negotiation ports with IP67 grade RJ45 connectors
- Patented Multiple Super Ring technology (MSR) with failover time less than 5ms and seamless restoration (restoration time is zero)
- Advanced Management by Port-based VLAN, IGMP snooping v1/v2/v3, QoS, DHCP with option 82
- LLDP and optional i<sup>2</sup>NMS JetView Pro, auto-topology visualization management software for efficient network infrastructure
- Security by authorized IP address, SSL and SSH
- Managed by "Cisco-Like" CLI, JetView, JetView Pro, Web, SNMP v1/v2c/v3 and RMON
- Event notification by SNMP Trap, Syslog, Fault relay, E-mail
- Built-in hardware watchdog timer for system auto-reset
- Redundant Power Inputs DC 24V (12~48) by M12 connector
- Railway EN50155 compliance
- -25~70°C operating temperature for hazardous environmental application



Protection cap, assembly RJ45 and M12 power connectors included Bi-directional Din-Rail bracket on request



BC AWARD

UL LISTED RoHS

RJ45 IP 67 MSR < 5ms

LLDP & JetView Pro EN 50155 -25~70°C

## JetNet 4506-RJ

### Industrial 6-Port Managed RJ45/IP67 Ethernet Switch

- IP68 waterproof, dust-tight, corrosion resistant for extreme environment
- M12 Connector for anti-vibration and shock
- Ultra rugged enclosure for toughest industrial usages
- Six 10/100 TX auto-negotiation ports with IP68 grade M12 D-coded connectors
- Patented Multiple Super Ring technology (RSR) with failover time less than 5ms and seamless restoration (restoration time is zero)
- Advanced Management by Port-based VLAN, IGMP snooping v1/v2/v3, QoS, DHCP with option 82
- LLDP and optional i<sup>2</sup>NMS JetView Pro, auto-topology visualization management software for efficient network infrastructure
- Security by authorized IP address, SSL and SSH
- Managed by "Cisco-Like" CLI, JetView, JetView Pro, Web, SNMP v1/v2c/v3 and RMON
- Event notification by SNMP Trap, Syslog, Fault relay, E-mail
- Built-in hardware watchdog timer for system auto-reset
- Redundant Power Inputs DC 24V (12~48) by M12 connector
- Railway EN50155 compliance
- -25~70°C operating temperature for hazardous environmental application



Protection cap and power connector included Assembly M12 D-coding connector on request Bi-directional Din-Rail bracket on request



BC AWARD

UL LISTED RoHS

M12 IP 68 MSR < 5ms

LLDP & JetView Pro EN 50155 -25~70°C

## JetNet 3006-RJ

### Industrial 6-Port RJ45/IP67 Ethernet Switch

- IP67 waterproof, dust-tight, corrosion resistant for extreme environment
- M12 and Rugged RJ45 Connector for anti-vibration and shock
- Ultra rugged enclosure for toughest industrial usages
- Six 10/100 TX auto-negotiation ports with IP67 grade robust RJ45 connectors
- Supports Multiple Super Ring member to integrate with JetNet 4506-RJ ring master
- Redundant Power Inputs DC 24V (12~48) by M12 connector
- 3.2 Gbps switch fabric with excellent data exchange performance
- Broadcast storm control
- IEEE802.1p for Class of Service (CoS)
- Railway EN50155 compliance
- -25~70°C operating temperature for hazardous environmental application



Protection cap, assembly RJ45 and M12 power connectors included Bi-directional Din-Rail bracket on request



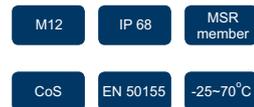
## JetNet 3006-M12

### Industrial 6-Port M12/IP68 Ethernet Switch

- IP68 waterproof, dust-tight, corrosion resistant for extreme environment
- M12 Connector for anti-vibration and shock
- Ultra rugged enclosure for toughest industrial usages
- Six 10/100 TX auto-negotiation ports with IP68 grade M12 D-coded connectors
- Supports Multiple Super Ring member to integrate with JetNet 4506-RJ ring master
- 3.2 Gbps switch fabric with excellent data exchange performance
- Broadcast storm control
- IEEE802.1p for Class of Service (CoS)
- Redundant Power Inputs DC 24V (12~48) by M12 connector
- Railway EN50155 compliance
- -25~70°C operating temperature for hazardous environmental application



Protection cap and power connector included Assembly M12 D-coding connector on request Bi-directional Din-Rail bracket on request



## JetNet 3706-RJ

### Industrial 6-Port RJ45/IP67 PoE Switch

- IP67 waterproof, dust-tight, corrosion resistant for extreme environment
- M12 and Rugged RJ45 Connector for anti-vibration and shock
- Six 10/100 TX auto-negotiation ports with IP67 grade robust RJ45 connectors
- Four IEEE802.3af PoE ports for 60W total power budget with max. 15.4W per port
- 2.0 Gbps switch fabric with excellent data exchange performance
- Broadcast storm control
- Redundant Power Inputs DC 44~57V by M12 connector
- -40~70°C operating temperature for hazardous environmental application
- Railway EN50155 compliance



Protection cap, assembly RJ45 and M12 power connectors included Bi-directional Din-Rail bracket on request



CE FC ~~RoHS~~

- 802.3af PoE
- 60W
- RJ45
- IP 67
- EN 50155
- Dual 44~57VDC
- 40~70°C

## JetNet 2006-RJ

### Industrial 6-Port RJ45 Ethernet Switch

- M12 and Rugged RJ45 Connector for anti-vibration and shock
- Six 10/100 TX auto-negotiation ports with robust RJ45 connectors
- Redundant Power Inputs DC 24V (12~48) by M12 connector
- 3.2 Gbps switch fabric with excellent data exchange performance
- Broadcast storm control
- IEEE802.1p for Class of Service (CoS)
- Railway EN50155 compliance
- -25~70°C operating temperature for hazardous environment application



Protection cap, assembly RJ45 and M12 power connectors included



CE FC ~~RoHS~~

- RJ45
- CoS
- EN 50155
- 25~70°C

## JetNet 2006-M12

### Industrial 6-Port M12 Ethernet Switch

- M12 Connector for anti-vibration and shock
- Six 10/100 TX auto-negotiation ports
- Redundant Power Inputs DC 24V (12~48) by M12 connector
- 3.2 Gbps switch fabric with excellent data exchange performance
- Broadcast storm control
- IEEE802.1p for Class of Service (CoS)
- Railway EN50155 compliance
- -25~70°C operating temperature for hazardous environment application



Protection cap and power connector included Assembly M12 D-coding connector on request



CE FC ~~RoHS~~

- M12
- CoS
- EN 50155
- 25~70°C

## JetWave Series Wireless Outdoor AP

Korenix introduces a complete solution of long and mid-range wireless outdoor Access Points for flexible unwired network constructions in harbors, railways, public utilities, mining areas and other outdoor environments. Korenix's wide range of Wireless Networking Devices is compliant with IEEE 802.11 a/b/g/n standards to provide high performance data at your desired speed, size and to your desired distance.

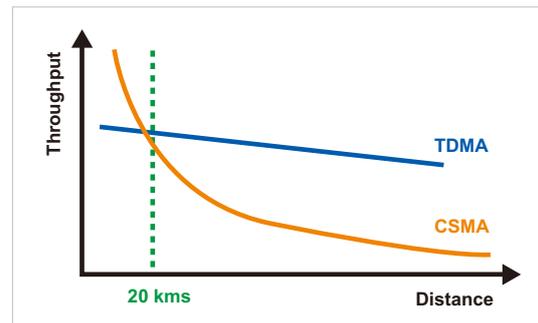
### High-Throughput & Enhanced Wireless Performance by 802.11N technology

Korenix JetWave 2450 supports IEEE 802.11N standard and is capable of ensuring triple higher data rate transmission with the increased speed and outstanding performance upgrading the existing wireless network to provide more capacity and enhance coverage.

The access point, backward compatible with 802.11 b/g standard, also allows connecting 802.11n, 802.11g or 802.11b wireless devices to the wired network so that it becomes possible to add PCs to the network with no cabling hassle.

### Intel® TDMA Enlarges Coverage and Performance

JetWave 2600 series supports different types of Wireless Multiple Access technologies, including CSMA and Intel® TDMA for various distance applications. Korenix adopts Intel® TDMA technology as well. Customers can setup CSMA or TDMA locally depending on the transmission distance. With a default 23dbi panel antenna, the wireless extensibility can reach at least 40KM with guaranteed transmission quality.



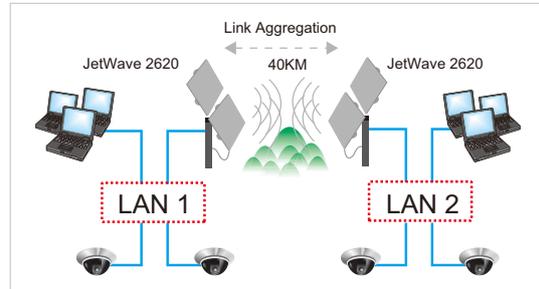
### WMM (QoS) Optimal for Wireless Video Surveillance

JetWave series supports WMM (Wi-Fi Multimedia) technology, which allows the wireless communication to give the highest priority to multimedia streaming: the

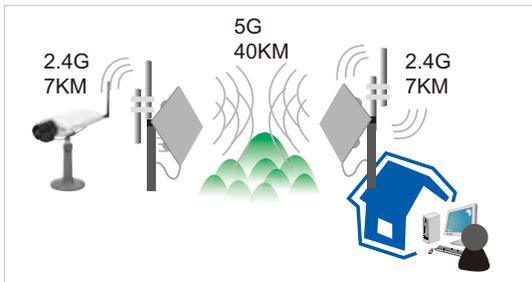
video stream is given precedence over data packets and is delivered more efficiently even under limited bandwidth.

## Dual 5G Interface Doubles Bandwidth

JetWave 2620 adopts dual 802.11a modules for users to aggregate radio. The link aggregation technology doubles the throughput of point to point application. Thus, users can benefit from the dual 5G bandwidth for more video streams and transmit megapixel and HDTV videos more efficiently.



## 5G & 2.4G Dual Band for Greater Flexibility



JetWave 2640 is equipped with one 802.11a and one 802.11b/g module. It easily integrates local area 2.4G network with backhaul 5G network, increasing flexibility of wireless surveillance deployment. Data from 802.11 b/g device can be easily transmitted to remote sites.

## Integrated PoE Technology for Power Unreachable Destinations

JetWave 2600 Series integrates 802.3af Power over Ethernet (PoE) technology, that allows installation of the device in power unreachable locations. Moreover, being compatible with Korenix PoE switches, the APs can be

used with Korenix JetPoE, JetRock and JetBox series for providing total solutions for highways, railways, dams, mines, harbors, wind power stations, etc.

## Korenix Product Selection Guide – Outdoor Wireless AP/Bridge

## Wireless Outdoor AP



JetWave 2610



JetWave 2620



JetWave 2640



JetWave 2450

|                               | Wireless Outdoor AP             | Dual 5G Wireless Outdoor AP  | Dual Band Wireless Outdoor AP           | 802.11b/g/n Outdoor AP  |
|-------------------------------|---------------------------------|--|---|---|
| <b>Interface</b>              |                                 |  |   |   |
| Number of 10/100 Ports        | 1                               | 1  | 1                                       | 1   |
| Number of WLAN Ports          | 1                               | 2  | 2                                       | 1   |
| Standard                      | 802.11a                         | 802.11a  | 802.11a + 802.11b/g                     | 802.11n (802.11b/g compliant)   |
| Maximum Transmission Distance |                                 | 40KM   |   | 5KM   |
| Operating Frequency           |                                 | FCC : 2.412~2.462GHz,<br>5.725~5.850 GHz<br>CE : 2.412~2.472GHz,<br>5.470~5.600 GHz, 5.650~5.725 GHz |   | FCC: 2.412 ~2.462 GHz(HT20),<br>2.422~ 2.452 GHz(HT40)<br>CE/ETSI: 2.412 ~ 2.472 GHz(HT20),<br>2.422~ 2.462 GHz(HT40) |
| RF Output Power               |                                 | 802.11a: 24dBm/FCC; 30dB/CE<br>802.11b/g: 23dBm/FCC; 20dB/CE   |   | FCC: 802.11b/g/n: Max. 27.5dBm<br>ETSI(CE): 802.11b/g/n: Max. 10.5dBm   |
| RX Sensitivity                |                                 | 802.11a: ≤ -92dBm@6Mbps; ≤ -73dBm@54Mbps<br>802.11b/g: -96dBm@1Mbps; -90dBm@6Mbps;<br>-72dBm@54Mbps  |   | 802.11b: 11Mbps ≤ -93dBm<br>802.11g: 54Mbps ≤ -88dBm<br>802.11n - HT 20 ≤ -88dBm<br>802.11n - HT 40 ≤ -84dBm          |
| Power Input (PoE)             | 802.3af (48VDC)                 | 802.3af (48VDC)  | 802.3af (48VDC)                         | 12V PoE   |
| Buzzer                        | •                               | •  | •                                       |   |
| <b>Mechanical</b>             |                                 |  |   |   |
| Housing (IP Rating)           | IP67                            | IP67   | IP67                                    | IP65  |
| Antenna                       | 1 embedded                      | 1 embedded, 1 external   | 1 embedded, 1 external                  | 1 embedded, 1 external  |
| Antenna Gain                  | 23dbi Directional               | 23dbi Directional  | 11a: 23dbi Directional,<br>11g:optional | Embedded: 8dbi<br>Directional,1 optional<br>(Modified by Software)  |
| Vent                          | •                               | •  | •                                       |   |
| Dimension (Unit=mm)           | 400 x 400 x 88(D)               | 400 x 400 x 88(D)  | 400 x 400 x 88(D)                       | 165(H) x 60(W) x 34(D)  |
| Operating Temperature         | -30~70°C                        | -30~70°C   | -30~70°C                                | -20~70°C  |
| <b>Protocols</b>              |                                 |  |   |   |
| CLI/Web/Utility Configuration | •                               | •  | •                                       | •   |
| Operating Mode                | Base Station,<br>CPE, P2P, P2MP | Base Station, CPE,<br>Relay, P2P, P2MP   | Base Station,<br>CPE, P2P, P2MP         | Base Station,<br>CPE, P2P, P2MP   |
| CSMA                          | •                               | •  | •                                       | •   |
| Intel TDMA                    | •                               | •  | •                                       |   |
| Super A/G                     | •                               | •  | •                                       |   |
| Link Aggregation              | •                               | •  |   |   |
| STP                           | •                               | •  | •                                       | •   |
| Link Test Tools               | •                               | •  | •                                       | •   |
| Encryption - WEP              | •                               | •  | •                                       | •   |
| Encryption - WPA, WPA2        | •                               | •  | •                                       | •   |
| HTTPS, SSH                    | •                               | •  | •                                       | •   |
| 802.1x, MAC Access Control    | •                               | •  | •                                       | •   |
| Wireless Isolation            | •                               | •  | •                                       | •   |
| QoS (WMM)                     |                                 |  |   |   |
| Others                        |                                 |  |   | IGMP Snooping, DHCP<br>Server, Router mode  |
| <b>Certification</b>          |                                 |  |   |   |
| Regulatory Approval: CE/FCC   | •                               | •  | •                                       | •   |
| RoHS/WEEE                     | •                               | •  | •                                       | •   |

## JetWave 2610 / 2620 / 2640

### Outdoor Long Range IEEE802.11a Wireless AP

- Supports IEEE 802.11a 5GHz band (JetWave 2610)
- Supports Dual IEEE 802.11a 5GHz band (JetWave 2620)
- Supports both IEEE 802.11a 5GHz and 802.11b/g 2.4GHz band (JetWave 2640)
- Up to 54Mbps maximum net data rate
- High Gain 23dbi Panel Antenna maximizes transmission distance up to 40KM
- N type external Antenna slot (JetWave 2640)
- Link Aggregation allow higher bandwidth for long distance transmission (JetWave 2620)
- Wireless QoS (WMM) for video precedence transmission
- Supports Base Station, CPE, Point to Point and Point to Multiple Point Connectivity
- Intel TDMA Technology for long distance connectivity
- Multiple Data Encryption algorithms, including WEP,WPA,WPA2
- Secured Access Control by HTTPS, SSH, 802.1x, MAC
- Auto ACK-Time adjustment, Link test for easy installation
- Rugged IP67 Protection Housing for outdoor installation
- Power supply compatible with PoE Source
- -30~70°C operating temperature for hazardous environment application



CE FC RoHS



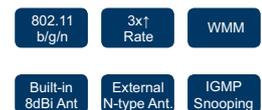
## JetWave 2450

### Outdoor High Performance 802.11b/g/n Wireless AP

- IEEE 802.11n wireless outdoor solution, backward compatible with 802.11b/g
- 3 times higher throughput than 802.11b/g solution, up to 150Mbps net data rate
- High performance and low maintaining cost for video surveillance network
- One model with both Embedded 8dbi Directional Antenna and N-Type Socket
- Up to 5KM Wireless coverage
- Wireless QoS (WMM) for video precedence transmission
- Supports Base Station, CPE, Point to Point and Point to Multiple Point connectivity
- Supports Spanning Tree Protocol, IGMP Snooping, SNMPv3, NTP, DHCP Server, Router mode
- Advanced security system by WEP, WPA, WPA2 and MAC address filter
- IP65 Protection Housing for outdoor installation
- Built-in 12VDC PoE, to be powered through Ethernet cable
- -20~70°C Operating temperature



CE FC RoHS



## JetBox Industrial Networking Embedded Platform

Korenix offers the broadest range of ruggedized embedded networking and communication platforms, designed and manufactured with the highest quality to best fit the requirements for various vertical markets such as automation engineering, telecommunications, industrial controls, traffic engineering, building automation etc. In addition to advanced functionalities and routing capabilities, the Linux and Windows-based computers with IP-31 grade rugged fan-less, anti vibration/shock design and wide operating temperature provide enhanced reliable networking in extreme industrial conditions.

### Intel Networking Processor for Reliable Performance

Korenix JetBox 9500 and 5400 series are designed with Integrated Intel XScale processor, with up to 667MHz core frequency which provides ample performance headroom for next-generation network applications.

Intel IXP435 is scalable and is powerful in supporting a wide range of residential gateway applications. Korenix JetBox offers developers a platform to innovate enhanced features for networking devices, routers, VPN firewall, and security appliances.

### Layer3 Routing: Effective Group Management of Network Devices

Designed with complete Layer 3 Routing features, the JetBox series is capable of inspecting incoming packets and makes dynamic routing decisions based on the source and destination addresses inside to achieve a

better network group management. With a built-in OSPF it ensures the automatic failover of WAN connection in case of a primary link failure.

### Efficient and Secure VPN Network

Korenix JetBox series supports VPN functionality and works as a VPN gateway to mitigate the risks of malicious intrusion and to establish a secure mechanism of users' identity while expanding networking capabilities and reducing system costs. The Linux based single board computer enables the VPN function working

effectively in Linux as well as cross windows systems. For even more flexibility, the embedded platforms support DMVPN, the enhancement of VPN protocol and the effective solution for dynamic secure overlay network construction and management.

### RISC CPU with PCI-104 Extension

Korenix JetBox reserves one PCI-104 slot to have more affordable extensibility and flexibility on RISC-based platform. JetBox series helps users respond quickly

to high-growth markets and design highly efficient products that leverage PC/104 plus or PCI-104 standards.

### Booster PoE for Vehicle Surveillance

JetBox series features Korenix patented 12-24V PoE technology specifically designed for surveillance on moving vehicle. The vehicle PoE upgrades traditional CCTV to megapixel IP cameras for more advanced security applications. With optional WLAN or WiMax extensions, the recorded video can be delivered to central office through wireless delivery.



### Mobile Network Extension

JetBox series are designed with reserved mobile network card slot to extend the network communication via GSM/GPRS/3G/3.5G/HSUPA while enhancing the platform

mobility and making the IP surveillance simple in public transportation, truck, railways etc.

# JetOS, Korenix Embedded Linux Platform with Abundant Developer Tools for Network Applications

## Reliable and Stable Linux Platform for Network Application

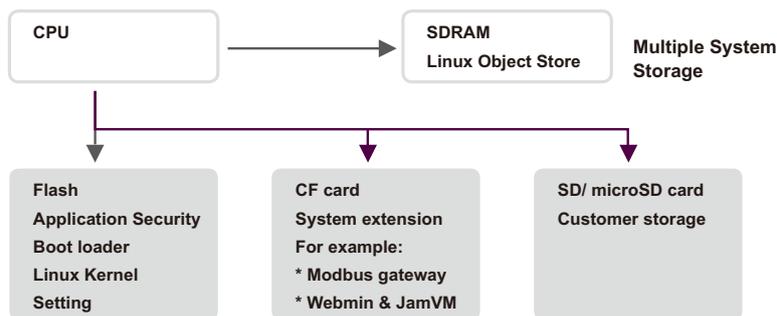
Korenix JetOS is a reliable and stable embedded platform which is under strict integration test. Users do not need to worry after-sale service or virus protection.

JetOS can be accessed remotely from network by user account, which provides access security when applied in networking environment.

## Small Footprint and Have System Extensibility

Unlike Linux running on PC, Korenix JetOS is an optimized embedded Linux platform in Kernel and file system to have small foot print. In addition, JetOS does not have the limitation on flash storage size like other embedded Linux. Instead, JetOS adjusts the structure of

Linux file system intelligently to allocate multiple system storage sources. The core Linux Kernel is stored on flash with written protection whereas applications can be stored in external CF or SD card.



## Powerful Technical Capabilities & Built-in Networking SW Packages

With the inherited advantages of powerful technical capabilities of open source Linux, Korenix JetOS is built-in and tested with different networking SW packages

for routing or Ethernet switching functionality. Korenix JetOS significantly reduces development time and time to market for system integrators or SW developers.

## Developer SDK for Customization

Developer SDK is provided with JetBox including cross compiler and sample code. With the SDK, developers

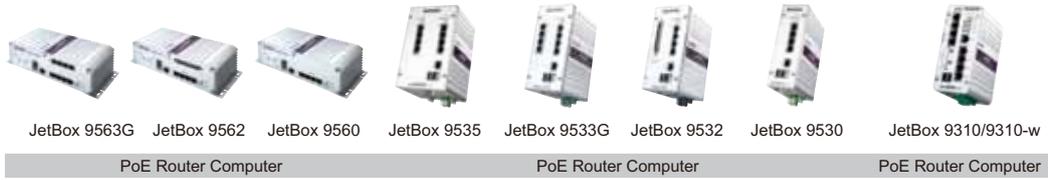
can easily modify the sample code into their own controlling programs.

## File Security for Developer's Program

Application files can be encrypted by an authorized key on an optional security CF card to make sure the

applications are well-protected from illegal usage or copying.

## Korenix Product Selection Guide – Industrial Router Computer



|                               | PoE Router Computer                        |                        |                        | PoE Router Computer                        |                        |                        |                        | PoE Router Computer                                |
|-------------------------------|--|------------------------|------------------------|--|------------------------|------------------------|------------------------|--|
| <b>Network</b>                |  |                        |                        |  |                        |                        |                        |  |
| Ethernet Switch               | GbE x4                                     |                        |                        | GbE x4                                     |                        |                        |                        |  |
| PoE LAN                       |  |                        |                        | x8   | x4                     | x4                     | x4                     | x4   |
| Booster PoE LAN               | x4   | x4                     | x4                     |  |                        |                        |                        |  |
| Router WAN                    | WAN x1<br>Layer3 routing: OSPF, RIP, DVMRP |                        |                        | WAN x1<br>Layer3 routing: OSPF, RIP, DVMRP |                        |                        |                        | WAN x1<br>Static routing                           |
| NAT, firewall, DMZ            | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      | ●  |
| IPv6                          | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      |  |
| VPN                           | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      |  |
| SNMP                          | v1,v2c,v3                                  | v1,v2c,v3              | v1,v2c,v3              | v1,v2c,v3                                  | v1,v2c,v3              | v1,v2c,v3              | v1,v2c,v3              | v1,v2c,v3  |
| <b>Interface</b>              |  |                        |                        |  |                        |                        |                        |  |
| RS232/422/485(connector)      |  | x4 (DB37)              |                        |  | x4 (DB37)              |                        |                        | x2 (RJ45)  |
| RS232(connector)              |  |                        |                        |  |                        |                        |                        | x2 (RJ45)  |
| USB                           | x3   | x3                     | x3                     | x3   | x3                     | x3                     | x3                     | x2   |
| DIO                           | DIO x8                                     | DIO x8                 | DIO x8                 | DIO x8                                     | DIO x8                 | DIO x8                 | DIO x8                 | DI x4, DO x4                                       |
| CF card slot                  | x1   | x1                     | x1                     | x1   | x1                     | x1                     | x1                     |  |
| SD card slot                  | x1   | x1                     | x1                     | x1   | x1                     | x1                     | x1                     | x1   |
| miniPCIe &SIM card slot       | x1   | x1                     | x1                     |  |                        |                        |                        |  |
| <b>System</b>                 |  |                        |                        |  |                        |                        |                        |  |
| Processor                     | Intel IXP435 667MHz                        |                        |                        | Intel IXP435 667MHz                        |                        |                        |                        | Atmel 180MHz                                       |
| System memory                 | On board<br>DDR2 128MB                     | On board<br>DDR2 128MB | On board<br>DDR2 128MB | On board<br>DDR2 128MB                     | On board<br>DDR2 128MB | On board<br>DDR2 128MB | On board<br>DDR2 128MB | On board<br>SDRAM 64MB                             |
| Flash                         | 32MB                                       | 32MB                   | 32MB                   | 32MB                                       | 32MB                   | 32MB                   | 32MB                   | 16MB ROM   |
| Console                       | 3pin RS232                                 | 3pin RS232             | 3pin RS232             | 3pin RS232                                 | 3pin RS232             | 3pin RS232             | 3pin RS232             |  |
| Reset                         | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      | ●  |
| Watchdog timer                | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      | ●  |
| Power on/off switch           |  |                        |                        |  |                        | ●                      |                        | ●  |
| DC input                      | 12~24V, Boost to 48V PoE(one input)        |                        |                        | 48V<br>(two main inputs)                   | 48V<br>(one input)     | 48V<br>(one input)     | 48V<br>(one input)     | 48V<br>(dual redundant inputs)                     |
| Power consumptionincl. PoE    | 100W                                       | 100W                   | 100W                   | 160W                                       | 90W                    | 90W                    | 90W                    | 68.8W  |
| <b>ME</b>                     |  |                        |                        |  |                        |                        |                        |  |
| Mounting                      | Wallmount                                  | Wallmount              | Wallmount              | DIN Rail                                   | DIN Rail               | DIN Rail               | DIN Rail               | DIN Rail   |
| Construction                  | Aluminum Alloy Chassis                     |                        |                        | Aluminum Alloy Chassis                     |                        |                        |                        | Aluminum Alloy Chassis                             |
| DimensionH x W x D (mm)       | 66.5 x 250 x 106.3                         |                        |                        | 102 x160 x112                              | 76 x160 x112           | 56 x160 x112           | 66 x149 x120.5         |  |
| Net weight                    | 1.07kg                                     | 1.07kg                 | 1.07kg                 | 1.2kg                                      | 1.07kg                 | 1.07kg                 | 0.9kg                  | 0.8kg  |
| <b>OS</b>                     |  |                        |                        |  |                        |                        |                        |  |
| Embedded Linux(Korenix JetOS) | JetOS95                                    | JetOS95                | JetOS95                | JetOS95                                    | JetOS95                | JetOS95                | JetOS95                | JetOS93 lite<br>w/Korenix web UI                   |
| Programmable                  | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      | via Linux auto-run function                        |
| <b>SDK</b>                    |  |                        |                        |  |                        |                        |                        |  |
| Embedded Linux(Korenix JetOS) | cross-compile<br>toolchain uClibc 0.9.29   |                        |                        | cross-compile<br>toolchain uClibc 0.9.29   |                        |                        |                        | cross-compile<br>toolchain uClibc 0.9.29           |
| <b>Add-on SW</b>              |  |                        |                        |  |                        |                        |                        |  |
| Modbus GW                     |  | ○                      |                        |  |                        | ○                      |                        | ○  |
| Webmin & JamVM                | ○  | ○                      | ○                      | ○  | ○                      | ○                      | ○                      |  |
| <b>ENV</b>                    |  |                        |                        |  |                        |                        |                        |  |
| Operating temp.               | -25~70°C                                   | -25~70°C               | -25~70°C               | -25~70°C                                   | -25~70°C               | -25~70°C               | -25~70°C               | -25~70°C (JetBox 9310)<br>-40~80°C (JetBox 9310-w) |
| Regulation                    | CE/FCC/UL*                                 | CE/FCC/UL*             | CE/FCC/UL*             | CE/FCC/UL*                                 | CE/FCC/UL*             | CE/FCC/UL*             | CE/FCC/UL*             | CE/FCC/UL  |

● supported ○ optional \*pending

## Korenix Product Selection Guide – Industrial Router Computer



JetBox 9463G-w JetBox 9462-w JetBox 9460-w JetBox 9435-w JetBox 9433G-w JetBox 9432-w JetBox 9430-w JetBox 9300/9300-w

|                               | Router Computer                            |                        |                        | Router Computer                            |                        |                        |                        | Router Computer                                    |
|-------------------------------|--|------------------------|------------------------|--|------------------------|------------------------|------------------------|--|
| <b>Network</b>                |  |                        |                        |  |                        |                        |                        |  |
| Ethernet Switch               | LAN x4, GbE x4                             | LAN x4                 | LAN x4                 | LAN x8                                     | LAN x4, GbE x4         | LAN x4                 | LAN x4                 | LAN x4   |
| Router WAN                    | WAN x1<br>Layer3 routing: OSPF, RIP, DVMRP |                        |                        | WAN x1<br>Layer3 routing: OSPF, RIP, DVMRP |                        |                        |                        | WAN x1<br>Static routing                           |
| NAT, firewall, DMZ            | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      | ●  |
| IPv6                          | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      |  |
| VPN                           | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      |  |
| SNMP                          | v1,v2c,v3                                  | v1,v2c,v3              | v1,v2c,v3              | v1,v2c,v3                                  | v1,v2c,v3              | v1,v2c,v3              | v1,v2c,v3              | v1,v2c,v3  |
| <b>Interface</b>              |  |                        |                        |  |                        |                        |                        |  |
| RS232/422/485(connector)      |  | x4 (DB37)              |                        |  |                        | x4 (DB37)              |                        | x2 (RJ45)  |
| RS232(connector)              |  |                        |                        |  |                        |                        |                        | x2 (RJ45)  |
| USB                           | x3   | x3                     | x3                     | x3   | x3                     | x3                     | x3                     | x2   |
| DIO                           | DIO x8                                     | DIO x8                 | DIO x8                 | DIO x8                                     | DIO x8                 | DIO x8                 | DIO x8                 | DI x4, DO x4                                       |
| CF card slot                  | x1   | x1                     | x1                     | x1   | x1                     | x1                     | x1                     |  |
| SD card slot                  | x1   | x1                     | x1                     | x1   | x1                     | x1                     | x1                     | x1   |
| miniPCIe &SIM card slot       | x1   | x1                     | x1                     |  |                        |                        |                        |  |
| <b>System</b>                 |  |                        |                        |  |                        |                        |                        |  |
| Processor                     | Intel IXP435 667MHz                        |                        |                        | Intel IXP435 667MHz                        |                        |                        |                        | Atmel 180MHz                                       |
| System memory                 | On board<br>DDR2 128MB                     | On board<br>DDR2 128MB | On board<br>DDR2 128MB | On board<br>DDR2 128MB                     | On board<br>DDR2 128MB | On board<br>DDR2 128MB | On board<br>DDR2 128MB | On board<br>SDRAM 64MB                             |
| Flash                         | 32MB                                       | 32MB                   | 32MB                   | 32MB                                       | 32MB                   | 32MB                   | 32MB                   | 16MB ROM   |
| Console                       | 3pin RS232                                 | 3pin RS232             | 3pin RS232             | 3pin RS232                                 | 3pin RS232             | 3pin RS232             | 3pin RS232             |  |
| Reset                         | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      | ●  |
| Watchdog timer                | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      | ●  |
| Power on/off switch           |  |                        |                        | ●  | ●                      | ●                      | ●                      | ●  |
| DC input                      | 12~48V(one input)                          |                        |                        | 12~48V<br>(two main inputs)                | 12~48V<br>(one input)  | 12~48V<br>(one input)  | 12~48V<br>(one input)  | 12~48V<br>(dual redundant inputs)                  |
| Power consumptionincl. PoE    | 25W  | 25W                    | 25W                    | 35W  | 25W                    | 25W                    | 25W                    | 7.2W   |
| <b>ME</b>                     |  |                        |                        |  |                        |                        |                        |  |
| Mounting                      | Wallmount                                  | Wallmount              | Wallmount              | DIN Rail                                   | DIN Rail               | DIN Rail               | DIN Rail               | DIN Rail   |
| Construction                  | Aluminum Alloy Chassis                     |                        |                        | Aluminum Alloy Chassis                     |                        |                        |                        | Aluminum Alloy Chassis                             |
| DimensionH x W x D (mm)       | 66.5 x 250 x 106.3                         |                        |                        | 102 x160 x112                              | 76 x160 x112           | 56 x160 x112           |                        | 66 x149 x120.5                                     |
| Net weight                    | 1.07kg                                     | 1.07kg                 | 1.07kg                 | 1.2kg                                      | 1.07kg                 | 1.07kg                 | 0.9kg                  | 0.8kg  |
| <b>OS</b>                     |  |                        |                        |  |                        |                        |                        |  |
| Embedded Linux(Korenix JetOS) | JetOS95                                    | JetOS95                | JetOS95                | JetOS95                                    | JetOS95                | JetOS95                | JetOS95                | JetOS93 lite<br>w/Korenix web UI                   |
| Programmable                  | ●  | ●                      | ●                      | ●  | ●                      | ●                      | ●                      | via Linux auto-run function                        |
| <b>SDK</b>                    |  |                        |                        |  |                        |                        |                        |  |
| Embedded Linux(Korenix JetOS) | cross-compile<br>toolchain uClibc 0.9.29   |                        |                        | cross-compile<br>toolchain uClibc 0.9.29   |                        |                        |                        | cross-compile<br>toolchain uClibc 0.9.29           |
| <b>Add-on SW</b>              |  |                        |                        |  |                        |                        |                        |  |
| Modbus GW                     |  | ○                      |                        |  |                        | ○                      |                        | ○  |
| Webmin & JamVM                | ○  | ○                      | ○                      | ○  | ○                      | ○                      | ○                      |  |
| <b>ENV</b>                    |  |                        |                        |  |                        |                        |                        |  |
| Operating temp.               | -40~80°C                                   | -40~80°C               | -40~80°C               | -40~80°C                                   | -40~80°C               | -40~80°C               | -40~80°C               | -25~70°C (JetBox 9300)<br>-40~80°C (JetBox 9300-w) |
| Regulation                    | CE/FCC/UL*                                 | CE/FCC/UL*             | CE/FCC/UL*             | CE/FCC/UL*                                 | CE/FCC/UL*             | CE/FCC/UL*             | CE/FCC/UL*             | CE/FCC/UL  |

● supported ○ optional \*pending

## Korenix Product Selection Guide – Industrial Communication Computer



JetBox 8210



JetBox 8152



JetBox 8150



JetBox 8100

|                               | RISC-based                               | X86-based                         | X86-based              | X86-based                              |
|-------------------------------|--|-----------------------------------|------------------------|--|
| <b>Network</b>                |  |                                   |                        |  |
| Ethernet link only            | x2                                       | x2                                | x2                     | x1                                     |
| VPN                           |  | ○                                 | ○                      |  |
| SNMP                          | OS support & DIO sample code             | OS support                        | OS support             | OS support                             |
| <b>Interface</b>              |  |                                   |                        |  |
| RS232/422/485(connector)      | x2 (DB9)                                 | x1 (DB9)                          | x1 (DB9)               | x1 (DB9)                               |
| RS232(connector)              | x2 (DB9)                                 |                                   | x1 (DB9)               | x1 (DB9)                               |
| CAN(connector)                |  | x1 (DB9)                          |                        |  |
| USB                           | x4 (1.1)                                 | x2 (2.0)                          | x2 (2.0)               | x2 (2.0)                               |
| DIO                           | DI x16, DO x16                           |                                   |                        |  |
| CF card slot                  | x1                                       | x1                                | x1                     | x1                                     |
| 2.5" HD slot                  |  | SATA x1                           | SATA x1                | IDE x1                                 |
| PS2                           |  |                                   |                        | KB/MS                                  |
| VGA(VGA memory)               | x1 (8MB)                                 | x1 (Max. 128MB)                   | x1 (Max. 128MB)        | x1 (Max. 64MB)                         |
| Audio                         | AC97                                     | High definition                   | High definition        | AC97                                   |
| <b>System</b>                 |  |                                   |                        |  |
| Processor                     | Intel PXA270 RISC 416MHz                 | VIA Eden V4X86 1GHz 128K L2 cache | Media processor CX700M | AMD LX800 X86 500MHz                   |
| System memory                 | On board SDRAM 128MB                     | Removable DDR2 1GB200pin SoDIMM   |                        | Removable SDRAM 256/512MB              |
| Flash                         |  |                                   |                        |  |
| <b>Console</b>                |  |                                   |                        |  |
| Reset                         | ●  | ●                                 | ●                      | ●                                      |
| Watchdog timer                | ●  | ●                                 | ●                      | ●                                      |
| DC input                      | 9~36V                                    | 12~24V                            | 12~24V                 | 12~24V                                 |
| Power consumption             | 5W (CPU loading)                         | 16W                               | 16W                    | 16W                                    |
| <b>ME</b>                     |  |                                   |                        |  |
| Mounting                      | Wallmount                                | DIN Rail                          | DIN Rail               | DIN Rail                               |
| Construction                  | Aluminum Alloy Chassis                   | Aluminum Alloy Chassis            | Aluminum Alloy Chassis | Sheet Metal Case                       |
| DimensionH x W x D (mm)       | 66.5 x 250 x 106.3                       | 50 x 145 x 102                    | 50 x 145 x 102         | 44.2 x 123 x 120                       |
| Net weight                    | 1.07kg                                   | 0.7kg                             | 0.7kg                  | 0.7kg                                  |
| <b>OS</b>                     |  |                                   |                        |  |
| Embedded Linux(Korenix JetOS) | Kernel 2.6.18                            |                                   |                        | Kernel 2.6.18                          |
| Linux                         |  | Fedora10                          | Fedora10               |  |
| WinCE                         | WinCE5.0                                 |                                   |                        | WinCE5.0                               |
| XPe                           |  | ●                                 | ●                      |  |
| Programmable                  | ●  | ●                                 | ●                      | ●                                      |
| <b>SDK</b>                    |  |                                   |                        |  |
| Embedded Linux(Korenix JetOS) | cross-compile<br>toolchain uClibc 0.9.29 |                                   |                        | compile<br>toolchain glibc2.3.x        |
| WinCE                         | WinCE5.0 SDK<br>.Net Compact Framework   |                                   |                        | WinCE5.0 SDK<br>.Net Compact Framework |
| XPe                           |  | Driver                            | Driver                 |  |
| <b>Add-on SW</b>              |  |                                   |                        |  |
| Modbus GW                     | ○  |                                   |                        | ○                                      |
| <b>ENV</b>                    |  |                                   |                        |  |
| Operating temp.               | -15~70°C                                 | -15~70°C                          | -15~70°C               | -15~70°C                               |
| Regulation                    | CE/FCC                                   | CE/FCC                            | CE/FCC                 | CE/FCC                                 |

● supported ○ optional \*pending

## Korenix Product Selection Guide – Industrial Communication Computer



JetBox 5432-w



JetBox 5430-w



JetBox 5300-w



JetBox 3350i-w



JetBox 3300-w

|                               | RISC-Based                              | RISC-Based                              | RISC-Based                              | RISC-Based                              | RISC-Based                              |
|-------------------------------|---|---|---|---|---|
| <b>Network</b>                |   |   |   |   |   |
| Ethernet link only            |   |   | x2                                      | x2                                      | x2                                      |
| Ethernet Switch               | LAN x4                                  | LAN x4                                  | ○                                       |   |   |
| Router                        | WAN x1                                  | WAN x1                                  |   |   |   |
| ser2net                       | ○                                       | ○                                       | ○                                       | ○                                       | ○                                       |
| Ethernet bridge               |   |   |   | ○                                       | ○                                       |
| IPv6                          | ●                                       | ●                                       |   |   |   |
| VPN                           | ●                                       | ●                                       |   |   |   |
| SNMP                          | v1,v2c,v3                               | v1,v2c,v3                               | agent                                   | agent                                   | agent                                   |
| <b>Interface</b>              |   |   |   |   |   |
| RS232/422/485(connector)      | x4 (DB37)                               |   | x2(RJ45)                                | x2 2KV isolation (RJ45)                 | x2(RJ45)                                |
| RS232(connector)              |   |   | x2 (RJ45)                               |   |   |
| USB                           | x1 (2.0)                                | x1 (2.0)                                | x2 (2.0)                                | x2 (2.0)                                | x2 (2.0)                                |
| DIO                           |   |   | DI x4, DO x4                            |   | DI x8, DO x8                            |
| SD/mSD card slot              |   |   | SD x1                                   | mSD x1                                  | mSD x1                                  |
| <b>System</b>                 |   |   |   |   |   |
| Processor                     | Intel IXP435 400MHz                     | Intel IXP435 400MHz                     | Atmel 180MHz                            | Atmel 180MHz                            | Atmel 180MHz                            |
| System memory                 | On board DDR2 128MB                     | On board DDR2 128MB                     | On boardSDRAM 64MB                      | On boardSDRAM 64MB                      | On boardSDRAM 64MB                      |
| Flash                         | 32MB                                    | 32MB                                    | 16MB ROM                                | 16MB ROM                                | 16MB ROM                                |
| Console                       | 3pin RS232                              | 3pin RS232                              |   |   |   |
| Reset                         | ●                                       | ●                                       | ●                                       | ●                                       | ●                                       |
| Watchdog timer                | ●                                       | ●                                       | ●                                       | ●                                       | ●                                       |
| DC input                      | 12~48V                                  | 12~48V                                  | 12~48V                                  | 12~48V                                  | 12~48V                                  |
| Power consumption             | 25W                                     | 25W                                     | 7.2W                                    | 7.2W                                    | 7.2W                                    |
| <b>ME</b>                     |   |   |   |   |   |
| Mounting                      | DIN Rail                                | DIN Rail                                | DIN Rail                                | Wall mount/DIN Rail                     | Wall mount/DIN Rail                     |
| Construction                  | Aluminum Alloy Chassis                  |
| DimensionH x W x D (mm)       | 76 x160 x112                            | 56 x160 x112                            | 66 x149 x120.5                          | 109 x 88 x27                            | 109 x 88 x27                            |
| Net weight                    | 0.9kg                                   | 0.9kg                                   | 0.7kg                                   | 0.5kg                                   | 0.5kg                                   |
| <b>OS</b>                     |   |   |   |   |   |
| Embedded Linux(Korenix JetOS) | JetOS95 (Kernel 2.6.20)                 | JetOS95 (Kernel 2.6.20)                 | JetOS93 lite (Kernel 2.6.21)            | JetOS93 lite (Kernel 2.6.21)            | JetOS93 lite (Kernel 2.6.21)            |
| Programmable                  | ●                                       | ●                                       | ●                                       | ●                                       | ●                                       |
| <b>SDK</b>                    |   |   |   |   |   |
| Embedded Linux(Korenix JetOS) | cross-compile<br>toolchainuClibc 0.9.29 |
| <b>Add-on SW</b>              |   |   |   |   |   |
| Modbus GW                     |   |   | ○                                       | ○                                       | ○                                       |
| <b>ENV</b>                    |   |   |   |   |   |
| Operating temp.               | -40~80°C                                | -40~80°C                                | -40~80°C                                | -40~80°C                                | -40~80°C                                |
| Regulation                    | CE/FCC                                  | CE/FCC                                  | CE/FCC                                  | CE/FCC                                  | CE/FCC                                  |

● supported ○ optional \*pending

## JetBox 9563G

### Embedded 4-Port GbE & 5-Port Booster PoE VPN Routing Computer

- Intel IXP 435 667MHz networking processor
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- DC 12~24V Boost 48V 4-port PoE delivers full 15.4W per port, 60W per unit
- 4-port Gigabit Ethernet for high-bandwidth data transmission
- Full managed features with QoS, VLAN, PoE scheduling
- Versatile interfaces of USB, DIO, SD control
- miniPCle & SIM slot for mobile module (GSM/GPRS/3G/HSUPA)
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Cross-platform applications by JamVM
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -25~70°C operating temperature



CE FC RoHS

- |               |                       |      |       |           |
|---------------|-----------------------|------|-------|-----------|
| 4GbE          | 12~24V<br>Booster PoE | 60W  | DIO   | USB       |
| SD/CF<br>Card | miniPCle              | SIM  | JamVM | Linux SDK |
| L3 Router     | VPN                   | IPV6 |       |           |

## JetBox 9562

### Embedded 5-Port Booster & 4-Port Serial PoE VPN Routing Computer

- Intel IXP 435 667MHz networking processor
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- DC 12~24V Boost 48V 4-port PoE delivers full 15.4W per port, 60W per unit
- 4-port RS 232/422/485 (DB37 connector), supporting TCP server/client and paired TCP modes
- Full managed features with QoS, VLAN, PoE scheduling
- Versatile interfaces of USB, DIO, SD control
- miniPCle & SIM slot for mobile module (GSM/GPRS/3G/HSUPA)
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Cross-platform applications by JamVM
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -25~70°C operating temperature



CE FC RoHS

- |                       |                      |     |        |       |
|-----------------------|----------------------|-----|--------|-------|
| 12~24V<br>Booster PoE | 4 RS 232/<br>422/485 | 60W | DIO    | USB   |
| SD/CF<br>Card         | miniPCle             | SIM | Modbus | JamVM |
| Linux SDK             | L3 Router            | VPN | IPV6   |       |

## JetBox 9560

### Embedded 5-Port Booster PoE VPN Routing Computer

- Intel IXP 435 667MHz networking processor
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- DC 12~24V Boost 48V 4-port PoE delivers full 15.4W per port, 60W per unit
- Full managed features with QoS, VLAN, PoE scheduling
- Versatile interfaces of USB, DIO, SD control
- miniPCle & SIM slot for mobile module (GSM/GPRS/3G/HSUPA)
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Cross-platform applications by JamVM
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -25~70°C operating temperature



CE FC ~~RoHS~~ RoHS

- 12~24V Booster PoE
- 60W
- DIO
- USB
- SD/CF Card
- miniPCle
- SIM
- JamVM
- Linux SDK
- L3 Router
- VPN
- IPv6

## JetBox 9535

### Embedded 8-Port PoE VPN Routing Computer

- Intel IXP 435 667MHz networking processor
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- 8-port PoE delivers full 15.4W per port, 123W per unit
- Separated two main DC 12~48V power inputs (48V for PoE)
- Full managed features with QoS, VLAN, PoE scheduling
- Versatile interfaces of USB, DIO, SD control
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Cross-platform applications by JamVM
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -25~70°C operating temperature



CE FC ~~RoHS~~ RoHS

- 8 PoE
- 123W
- DIO
- USB
- SD/CF Card
- JamVM
- Linux SDK
- L3 Router
- VPN
- IPv6

## JetBox 9533G

### Embedded 4-Port GbE & 4-Port PoE VPN Routing Computer

- Intel IXP 435 667MHz networking processor
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- 4-port PoE delivers full 15.4W per port, 60W per unit
- DC 12~48V power input (48V for PoE)
- 4-port Gigabit Ethernet for high-bandwidth data transmission
- Full managed features with QoS, VLAN, PoE scheduling
- Versatile interfaces of USB, DIO, SD control
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Cross-platform applications by JamVM
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -25~70°C operating temperature



|           |            |       |           |
|-----------|------------|-------|-----------|
| 4GbE      | 4 PoE      | 60W   | DIO       |
| USB       | SD/CF Card | JamVM | Linux SDK |
| L3 Router | VPN        | IPv6  |           |

## JetBox 9532

### Embedded 4-Port Serial & 4-Port PoE VPN Routing Computer

- Intel IXP 435 667MHz networking processor
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- 4-port PoE delivers full 15.4W per port, 60W per unit
- DC 12~48V power input (48V for PoE)
- 4-port RS232/422/485 (DB37 connector), supporting TCP server/client and paired TCP modes
- Full managed features with QoS, VLAN, PoE scheduling
- Versatile interfaces of USB, DIO, SD control
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Cross-platform applications by JamVM
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -25~70°C operating temperature

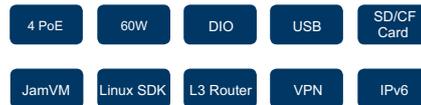


|                  |            |        |       |
|------------------|------------|--------|-------|
| 4 RS 232/422/485 | 4 PoE      | 60W    | DIO   |
| USB              | SD/CF Card | Modbus | JamVM |
| Linux SDK        | L3 Router  | VPN    | IPv6  |

## JetBox 9530

### Embedded 4-Port PoE VPN Routing Computer

- Intel IXP 435 667MHz networking processor
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- 4-port PoE delivers full 15.4W per port, 60W per unit
- DC 12~48V power input (48V for PoE)
- Full managed features with QoS, VLAN, PoE scheduling
- Versatile interfaces of USB, DIO, SD control
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Cross-platform applications by JamVM
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -25~70°C operating temperature



## JetBox 9310 / 9310-w

### PoE Networking Computer

- RISC CPU with low power consumption
- IP routed, static routing, NAT (firewall), DMZ
- 4-port PoE delivers full 15.4W per port, 60W per unit
- DC 12~48V power input (48V for PoE)
- Full managed features with QoS, VLAN
- 2-port RS232/422/482 and 2-port RS232, supporting VCOM, TCP server/client, UDP and paired TCP modes
- Versatile interfaces of USB, DIO, SD card slot
- Easy management with DIO, PoE Scheduling
- SNMP v1, v2c, v3 for easy network management
- NTP for network time management
- Linux SDK for quick time-to-market
- Linux Auto-run SD card for customized configuration
- -25~70°C operating temperature for JetBox 9310, -40~80°C for JetBox 9310-w



## JetBox 9463G-w

### Embedded 4-Port GbE VPN Routing Computer with expansion slot

- Intel IXP 435 667MHz networking processor
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- 4-port Gigabit Ethernet for high-bandwidth data transmission
- miniPCle & SIM slot for mobile module (GSM/GPRS/3G/HSUPA)
- Versatile interfaces of USB, DIO, SD control
- Full managed features with QoS, VLAN
- NTP for network time management
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Linux Auto-run SD card for customized configuration
- Cross-platform applications by JamVM
- DC 12~48V power input
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock,
- -40~80°C operating temperature



CE FC RoHS

|          |      |          |            |
|----------|------|----------|------------|
| 4GbE     | DIO  | USB      | SD/CF Card |
| miniPCle | SIM  | JamVM    | Linux SDK  |
| VPN      | IPv6 | -40~80°C |            |

## JetBox 9462-w

### Embedded 4-port Serial VPN Routing Computer with expansion slot

- Intel IXP 435 667MHz networking processor
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- miniPCle & SIM slot for mobile module (GSM/GPRS/3G/HSUPA)
- 4-port RS232/422/485 (DB37 connector), supporting TCP server/client and paired TCP modes
- Versatile interfaces of USB, DIO, SD control
- Full managed features with QoS, VLAN
- NTP for network time management
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Linux Auto-run SD card for customized configuration
- Cross-platform applications by JamVM
- DC 12~48V power input
- Fan-less and ruggedized industrial design for anti-vibration anti-shock
- -40~80°C operating temperature



CE FC RoHS

|                  |     |        |            |
|------------------|-----|--------|------------|
| 4 RS 232/422/485 | DIO | USB    | SD/CF Card |
| miniPCle         | SIM | Modbus | JamVM      |
| Linux SDK        | VPN | IPv6   | -40~80°C   |

## JetBox 9460-w

### Embedded 4-port VPN Routing Computer with expansion slot

- Intel IXP 435 667MHz networking processor
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- miniPCle & SIM slot for mobile module (GSM/GPRS/3G/HSUPA)
- Versatile interfaces of USB, DIO, SD control
- Full managed features with QoS, VLAN
- NTP for network time management
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Linux Auto-run SD card for customized configuration
- Cross-platform applications by JamVM
- DC 12~48V power input
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -40~80°C operating temperature



CE FC ~~RoHS~~ RoHS



## JetBox 9435-w

### Embedded 8-port VPN Routing Computer

- Intel IXP 435 667MHz networking processor to enhance routing and VPN performance
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- Versatile interfaces of USB, DIO, SD control
- Full managed features with QoS, VLAN
- NTP for network time management
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Linux Auto-run SD card for customized configuration
- Cross-platform applications by JamVM
- Separated two main DC 12~48V power inputs
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -40~80°C operating temperature



CE FC ~~RoHS~~ RoHS



## JetBox 9433G-w

### Embedded 4-port GbE VPN Routing Computer

- Intel IXP 435 667MHz networking processor to enhance routing and VPN performance
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- 4-port Gigabit Ethernet for high-bandwidth data transmission
- Versatile interfaces of USB, DIO, SD control
- Full managed features with QoS, VLAN
- NTP for network time management
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Linux Auto-run SD card for customized configuration
- Cross-platform applications by JamVM
- DC 12~48V power input
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -40~80°C operating temperature



## JetBox 9432-w

### Embedded 4-port Serial VPN Routing Computer

- Intel IXP 435 667MHz networking processor to enhance routing and VPN performance
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- 4-port RS232/422/485 (DB37 connector), supporting TCP server/client and paired TCP modes
- Versatile interfaces of USB, DIO, SD control
- Full managed features with QoS, VLAN
- NTP for network time management
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Linux Auto-run SD card for customized configuration
- Cross-platform applications by JamVM
- DC 12~48V power input
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -40~80°C operating temperature



## JetBox 9430-w

### Embedded 4-port VPN Routing Computer

- Intel IXP 435 667MHz networking processor to enhance routing and VPN performance
- VPN, DMVPN for enhanced secure networking
- Complete layer3 routing: OSPF, RIP, DVMRP, IPv6
- Versatile interfaces of USB, DIO, SD control
- Full managed features with QoS, VLAN
- NTP for network time management
- Embedded Linux UI—Modulized Webmin, capable of running customized control programs
- Linux Auto-run SD card for customized configuration
- Cross-platform applications by JamVM
- DC 12~48V power input
- Fan-less and ruggedized industrial design for anti-vibration, anti-shock
- -40~80°C operating temperature



CE FC RoHS

- DIO
- USB
- SD/CF Card
- JamVM
- Linux SDK
- L3 Router
- VPN
- IPv6
- 40~80°C

## JetBox 9300 / 9300-w

### Networking Computer

- RISC CPU with low power consumption
- IP routed, static routing, NAT (firewall), DMZ
- Full managed features with QoS, VLAN
- 5 Ethernet ports for high network connectivity
- 2-port RS232/422/485 and 2-port RS232, supporting VCOM, TCP server/client, UDP and paired TCP modes
- Versatile interfaces of USB, DIO, SD card slot
- Easy management with DIO
- SNMP v1, v2c, v3 for easy network management
- NTP for network time management
- Linux SDK for quick time-to-market
- Auto-run SD card for customized configuration
- DC 12~48V power input
- -25~70°C operating temperature for JetBox 9300, -40~80°C for JetBox 9300-w



Golden Penguin Award



CE FC RoHS

- 2 RS 232/422/485
- 2 RS 232
- DIO
- USB
- SD Card
- Linux SDK
- Router
- VLAN

## JetBox 5430-w / 5432-w

### Embedded (Serial) VPN Linux Computer

- Intel IXP435 400MHz Networking Processor to enhance routing and VPN performance
- Complete Layer3 routing: OSPF, RIP, DVMRP, IPv6
- Full managed features with QoS and VLAN
- 4-port RS232/422/485 (DB37 connector), supporting TCP server/client and paired TCP modes (JetBox 5432-w)
- Embedded Linux ready for easy maintenance
- DC 12~48V power inputs
- -40~80°C wide operating temp, fanless



JetBox 5430-w

JetBox 5432-w



CE FC RoHS

- 4 RS232/422/485
- USB
- Linux SDK
- Router
- VPN
- 40~80°C

## JetBox 8210

### Industrial RISC Communication Computer

- **High performance with low power consumption:**
  1. Intel XScale PXA270 RISC 416MHz
  2. System memory 128MB, 8MB VGA
- **Plentiful interfaces:**  
Dual Ethernet, 16 DI/DO, 4 COM, 4 USB, VGA, Audio
- **Reliable robust form factor:**
  1. 5g Anti-vibration and 50g shock resistant
  2. Operating Temperature: -15~70°C, Fanless
- **Ready to use:**
  1. Embedded Linux/WinCE OS ready by optional CF card
  2. System Management Utility
  3. Application Development Environment
  4. Modbus gateway (optional)



CE FC RoHS

- 2 RS 232/422/485
- 2 RS 232
- DIO
- USB
- Linux SDK
- VGA
- Modbus

## JetBox 5300-w

### Embedded 2 LAN & 4 Serial Linux Computer

- RISC CPU with low power consumption for reliable performance
- Embedded Linux ready for easy maintenance
- SD card slot for customized configuration
- 4DI & 4DO for digital device connections
- 4-port RS232/422/485: TCP server mode for device remote control
- 2 LAN ports for Daisy-Chain Controller
- Modbus gateway (optional)
- Dual DC 12~48V redundant power inputs for system reliability
- -40~80°C wide operating temp, fanless



CE FC RoHS

- |                      |           |        |          |
|----------------------|-----------|--------|----------|
| 2 RS 232/<br>422/485 | 2 RS 232  | DIO    | USB      |
| SD Card              | Linux SDK | Modbus | -40~80°C |

## JetBox 3300-w / 3350i-w

### Embedded Compact 2 LAN & 2 (Isolated) Serial Linux Computer

- Atmel ARM AT91RM9200 180 MHz Networking Processor with low power consumption for reliable performance
- Embedded Linux ready compact system for easy maintenance
- Linux SDK for quick time-to-market
- 2 LAN ports for Daisy-Chain Controller
- 2 USB for data storage
- 2 RS232/422/485 and 8DI & 8DO for device and signal control (JetBox 3300-w)
- 2KV Serial Isolation for device protection (JetBox 3350i-w)
- One microSD card slot for customized configurations
- Fan-less, ruggedized industrial design for anti-vibration/shock and -40~80°C wide operating temperature



CE FC RoHS

- |                      |            |        |          |
|----------------------|------------|--------|----------|
| 2 RS 232/<br>422/485 | 2KV Serial | DIO    | USB      |
| micor SD<br>Card     | Linux SDK  | Modbus | -40~80°C |

## JetBox 8150 / 8152

### Industrial Communication Computer (with CANbus)

- **High Performance Multimedia Processor**
  1. VIA Eden V4 1GHz, 128K L2 cache
  2. Multimedia processor CX700M
  3. DDR2 1GB (200-pin SoDIMM)
  4. Max. 128MB VGA memory
  5. High resolution audio
- **Sophisticated Enclosure for Demanding Operation**
  1. Fan-less, aluminum heat-sink frame housing to enhance heat dispersion
  2. Industrial design for anti-vibration & anti-shock
- **Abundant Interfaces to Integrate Connectivity**
  1. Dual Ethernet, 2 COM, 2 USB (JetBox 8150)
  2. Dual Ethernet, 1 COM, 1 CAN, 2 USB (JetBox 8152)
  3. 1 CompactFlash Card Type I/II Socket
  4. 1 SATA (2.5" HD option)
  5. 2 Audio connectors (Mic/ Line-in & Line-out)
- **Ready-to-use**
  1. Windows XP embedded with system development kit
  2. XPe CANbus (Optional) (JetBox 8152)
  3. Linux Fedora10 with VPN
  4. Linux CANbus (optional) (JetBox 8152)



JetBox 8150

JetBox 8152

CE FC  RoHS



## JetBox 8100

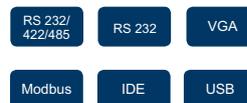
### Industrial Communication Computer

- **Efficient and steady**
  1. AMD GEODE LX800 500MHz
  2. System memory 256MB, 64MB VGA
  3. -15~70°C operating temperature for hazardous environment application
- **Small volume with core interfaces**

Ethernet, 2COM, 2USB, VGA, Audio, PS2 (KB/Mouse)  
IDE Slot (2.5" HD or DOM), CF card slot
- **Ready to use:**
  1. Embedded Linux/WinCE/XPe OS ready by optional CF card, DOM or 2.5" HD
  2. System Management Utility
  3. Application Development Environment
  4. Modbus gateway (optional)



CE FC  RoHS



## Korenix Product Selection Guide – Industrial Ethernet / PoE / Serial Boards



JetCard 5400  
3.5" SBC w/  
PCI-104 bus



JetCard 2154G



JetCard 2105



JetCard 1608



JetCard 2215



JetCard 2205

|                            |                     |                     |                     |                  |                  |
|----------------------------|---------------------|---------------------|---------------------|------------------|------------------|
| 3.5" SBC w/<br>PCI-104 bus | PCI-104 Switch Card | PCI-104 Switch Card | PCI-104 Switch Card | UPCI Switch Card | UPCI Switch Card |
|----------------------------|---------------------|---------------------|---------------------|------------------|------------------|

| Function                 | Linux-Ready Single Board Computer                              | Gigabit Ethernet Switch Card  | Ethernet Switch Card   | Serial Card  | PoE Ethernet Switch Card   | Ethernet Switch Card   |
|--------------------------|--|---|--|--|--|--|
| Ports                    | 10/100Mbps Ethernet x 5<br>USB2.0 x1/Console x1<br>reset x1    | 10/100/1000Mbps<br>Ethernet x 4   | 10/100Mbps<br>Ethernet x 5   | RS-232/422/485 x 4 external<br>RS-232 x 4 internal     | 10/100Mbps Ethernet x 5<br>(4 ports with PoE, 15.4W)                 | 10/100Mbps<br>Ethernet x 5   |
| Max. Stacked Boards      | 4  | 4   | 4  | 4  | 4  | 4  |
| Bus interface            | 32-bit PCI-104   | 32-bit PCI-104  | 32-bit PCI-104   | 32-bit PCI-104   | 32-bit UPCI  | 32-bit UPCI  |
| Power Input              | DC 12~48V<br>terminal block<br>(Power consumption<br>Max. 25W) | PCI-104 bus   | PCI-104 bus  | PCI-104 bus  | DC 12~24V external<br>power input<br>(ATX 4Pin Connector)            | UPCI bus   |
| Board Connector          | RJ45 x 4 external  | RJ45 x 4 external   | RJ45 x 4 external<br>RJ45 x 1 internal                               | DB-37 female x 1 external<br>Box header x 1 internal   | RJ45 x 4 external<br>RJ45 x 1 internal                               | RJ45 x 4 external<br>RJ45 x 1 internal                               |
| Cable Connection         |  | RJ45  | RJ45   | DB-9/DB-25   | RJ45   | RJ45   |
| Communication Controller | CPU: Intel IXP435<br>400MHz RISC<br>128MB DDR2 RAM             | Marvell 88E8001<br>Marvell 88E6161  | Realtek 8139C+<br>Marvell 88E6065                                    | Oxford OXmPCI954                                       | Realtek 8139C+<br>Marvell 88E6065                                    | Realtek 8139C+<br>Marvell 88E6065                                    |
| Performance              | L3 routing<br>VPN, IPv6<br>Managed switch                      | 10/100/1000Mbps<br>with auto MDI/MDI-x,<br>Ethernet Statistics<br>monitor | 10/100Mbps<br>with auto MDI/MDI-x,<br>Ethernet Statistics<br>monitor | FIFO 128 Bytes,<br>Up to 921.6Kbps,<br>SW Flow Control | 10/100Mbps<br>with auto MDI/MDI-x,<br>Ethernet Statistics<br>monitor | 10/100Mbps<br>with auto MDI/MDI-x,<br>Ethernet Statistics<br>monitor |
| Operating Temperature    | -40~80°C   | -25~70°C  | -25~70°C   | -25~70°C   | -25~70°C   | -25~70°C   |

| Operating System |                       |                   |                 |                 |                 |                 |
|------------------|-----------------------|-------------------|-----------------|-----------------|-----------------|-----------------|
| Windows          |                       | 7/NT/2000/2003/XP | NT/2000/2003/XP | NT/2000/2003/XP | NT/2000/2003/XP | NT/2000/2003/XP |
| Linux Kernel     | Embedded Linux 2.6.20 | 2.4x/2.6x         | 2.4x/2.6x       |                 | 2.4x/2.6x       | 2.4x/2.6x       |



JetCard 1208L



JetCard 1204/ 1204-w



JetCard 1208 / 1208-w



JetCard 1402 / 1402i



JetCard 1404 / 1404i

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| Multi-Port Serial Card | Multi-Port Serial Card | Multi-Port Serial Card |
|------------------------|------------------------|------------------------|

| Function                                   | UPCI (Low profile)   | UPCI  | UPCI  | UPCI  | UPCI  |
|--|--|---|---|---|---|
| Ports                                      | RS-232 x 8   | RS-232 x 4  | RS-232 x 8  | RS-422/485 x 2  | RS-422/485 x 4  |
| Max. Stacked Boards                        | 4  | 4   | 4   | 4   | 4   |
| Bus interface                              | 32-bit Universal PCI   | 32-bit Universal PCI  | 32-bit Universal PCI  | 32-bit Universal PCI  | 32-bit Universal PCI  |
| Board Connector                            | VHDCI68  | DB-37 female  | DB-62 female  | DB-9 male x2  | DB-37 female  |
| Cable Connection                           | DB-9/DB-25   | DB-9/DB-25  | DB-9/DB-25  | DB-9/DB-25  | DB-9/DB-25  |
| Communication Controller                   | 16C950 Compatible  | 16C950 Compatible   | 16C950 Compatible   | 16C950 Compatible   | 16C950 Compatible   |
| Performance                                | FIFO 128 Bytes, Up to<br>460.8Kbps, 15KV ESD<br>protection, HW/SW Flow Control | FIFO 128 Bytes, Up to 921.6Kbps,<br>15KV ESD protection, HW/SW Flow Control | FIFO 128 Bytes, Up to 921.6Kbps,<br>15KV ESD protection, HW/SW Flow Control | FIFO 128 Bytes, Up to 921.6Kbps,<br>15KV ESD protection, HW/SW Flow Control | FIFO 128 Bytes, Up to 921.6Kbps,<br>15KV ESD protection, HW/SW Flow Control |
| Optical Isolation Protection: 2KV per Port |  |   |   | JetCard 1402i   | JetCard 1404i   |
| Operating Temperature                      | -10~70°C   | -10~70°C (JetCard 1204 / 1208)<br>-40~80°C (JetCard 1204-w/1208-w)          |   | -10~70°C  | -10~70°C  |

| Operating System |           |                         |
|------------------|-----------|-------------------------|
| Windows          | 7/XP/2000 | 7/98/Me/NT/2000/XP/2003 |
| Linux Kernel     | 2.4x/2.6x | 2.4x/2.6x               |

## JetCard 5400-w

### Linux-Ready PCI-104 Single Board Computer

- Intel IXP435 400MHz with Networking Processor
- 5 Ethernet ports: 1 WAN, 4 LAN
- 1 USB, 1 console port, 1 reset button
- 12~48V DC input
- Embedded Linux ready
- Router/ Ethernet switch function support
- Linux SDK provided
- -40~80°C operating temperature for hazardous environment application



CE FC ~~RoHS~~ RoHS

Linux SDK   PCI-104   12~48VDC

USB   -40~80°C

## JetCard 2154G

### 4-Port Gigabit Ethernet Switch PCI-104 Card

- Support 32 bit PCI-104 bus
- 4 10/100/1000TX ports with Auto MDI/MDI-X
- IEEE 802.3 10Base-T/100Base-Tx/ 1000Base-T compatible
- Full or half duplex at 10/100/1000 Mbps
- IEEE 802.3u Auto-Negotiation supported
- QoS supported



CE FC ~~RoHS~~ RoHS

PCI-104   4GbE   QoS   Win 7

## JetCard 2105

### Linux-Ready PCI-104 Single Board Computer

- Support 32 bit PCI-104 bus
- 5 10/100TX ports with Auto MDI/MDI-X
- IEEE 802.3 10 Base-T and 100 Base-Tx compatible
- Full or half duplex at 10/100 Mbps
- IEEE 802.3u Auto-Negotiation supported
- QoS supported
- Support Windows XP/NT/2000/2003/Vista, Linux 2.4/2.6
- -25~70°C operating temperature for hazardous environment application



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PCI-104 QoS -25~70°C

## JetCard 1608

### 4 Ports RS-232/422/485 & 4 Ports RS232 PCI-104 Card

- Support 32 bit PCI-104 bus
- One DB37 connectors to support 4 RS-232/422/485 ports
- One box header to support 4 RS-232 ports
- Up to 921.6Kbps high speed data transmission
- Supports on-board automatic software flow control
- Support Windows 2000/2003/XP/Vita
- -25~70°C operating temperature for hazardous environment application



CE FC ~~RoHS~~ RoHS

PCI-104 4 RS 232/422/485 2 RS 232

921.6Kbps -40~80°C

**CM37M9x4-60:** 4-port male DB37 to male DB9 connection cable, 60cm  
**CM37M25x4-60:** 4-port male DB37 to male DB25 connection cable, 60cm



CM37M9x4-60



CM37M25x4-60

## JetCard 2215

### 4 PoE, 1 LAN, 12~24V Booster Switch Universal PCI Card

- Support 32 bit Universal PCI bus
- 5 10/100TX ports with Auto MDI/MDI-X
- One 12~24V DC input powers PCI card and PoE ports
- 4 ports PoE, IEEE 802.3af compliant, deliver 15.4W per port
- Unmanaged switch function
- IEEE 802.3 10 Base-T and 100 Base-Tx compatible
- Full or half duplex at 10/100 Mbps
- IEEE 802.3u Auto-Negotiation supported



CE FC  RoHS

UPCI 4 PoE 12~24V Booster 60W

## JetCard 2205

### 5 Ports 10/100Mbps Fast Ethernet Switch Universal PCI Card

- Support 32 bit Universal PCI bus
- 5 10/100TX ports with Auto MDI/MDI-X
- IEEE 802.3 10 Base-T and 100 Base-Tx compatible
- Full or half duplex at 10/100 Mbps
- IEEE 802.3u Auto-Negotiation supported
- QoS supported
- -25~70°C operating temperature for hazardous environment application



CE FC  RoHS

UPCI QoS -25~70°C

## JetCard 1402 / 1402i

### 2-port RS-422 / 485 Universal PCI Card

- Supports 32-bit Universal PCI bus
- Easy-to-install driver and self-diagnostic utility
- High speed up to 921.6 Kbps
- Built-in 15KV ESD protection
- Automatic Flow Direction Switching Technology
- Supports 128-byte FIFO
- Supports on-board automatic hardware/software flow control
- Supports over current/voltage protection
- Provides 2KV optical isolation ( JetCard 1402i only)



CE FC ~~RoHS~~ RoHS



## JetCard 1404 / 1404i

### 4-port RS-422 / 485 Universal PCI Card

- Supports 32-bit Universal PCI bus
- Easy-to-install driver and self-diagnostic utility
- High speed up to 921.6 Kbps
- Built-in 15KV ESD protection
- Automatic Flow Direction Switching Technology
- Supports 128-byte FIFO
- Supports on-board automatic hardware/software flow control
- Supports over current/voltage protection
- Provides 2KV optical isolation ( JetCard 1404i only)



CE FC ~~RoHS~~ RoHS



**CM37M9x4-60:** 4-port male DB37 to male DB9 connection cable, 60cm

**CM37M25x4-60:** 4-port male DB37 to male DB25 connection cable, 60cm



CM37M9x4-60



CM37M25x4-60

## JetCard 1204 / 1204-w / 1208 / 1208-w

### 4-port / 8-port RS-232 Universal PCI Card

- Supports 32-bit Universal PCI bus
- Easy-to-install driver and self-diagnostic utility
- High speed up to 921.6 Kbps
- Built-in 15KV ESD protection
- Supports 128-byte FIFO
- Supports on-board automatic hardware/software flow control
- -10~70°C operating temperature for hazardous environment application ( JetCard 1204-w/1208-w: -40~80°C)



JetCard 1204/1204-w

JetCard 1208/1208-w



#### JetCard 1204/1204-w

- CM37M9x4-60:** 4-port male DB37 to male DB9 connection cable, 60cm
- CM37M25x4-60:** 4-port male DB37 to male DB25 connection cable, 60cm



CM37M9x4-60

CM37M25x4-60

#### JetCard 1208/1208-w

- CM62M9x8-100:** 8-port male DB62 to male DB9 connection cable, 100cm
- CM62M25x8-100:** 8-port male DB62 to male DB25 connection cable, 100cm



CM62M9x8-100

CM62M25x8-100

## JetCard 1208L

### 8-port RS-232 Universal PCI Low Profile Card

- Supports 32-bit Universal PCI bus
- Low profile form factor fits small-sized PCs
- Easy-to-install driver and self-diagnostic utility
- High speed up to 921.6 Kbps
- Built-in 15KV ESD protection
- Supports 128-byte FIFO
- Supports on-board automatic hardware/ software flow control
- Driver supported Windows 7 / Vista / ME/ 2K/ XP (JetCard 1208L)
- -10~70°C operating temperature for hazardous environment application



#### CV68M9x8-100

Male VHDCI 68 to 8-port male DB9 connection cable, 100cm

#### CV68M25x8-100

Male VHDCI 68 to 8-port male DB25 connection cable, 100cm



CV68M9x8-100

CV68M25x8-100



## Korenix Product Selection Guide – Industrial Ethernet IO



Jet/O 6510



Jet/O 6511



Jet/O 6512



Jet/O 6520



Jet/O 6550

|                                  | Analog Input                                    | Analog/Thermocouple Input   | RTD Input             | Analog Output                                   | Digital Input/Output            |
|----------------------------------|---|---|-----------------------|---|---------------------------------|
| <b>Analog Input</b>              |   |   |                       |   |                                 |
| Channel                          | 8   | 8   | 4                     |   |                                 |
| Resolution                       | 16 bits   | 16 bits   | 16 bits               |   |                                 |
| Input Range                      | ±10V, ±5V, ±1V,<br>±500mV, ±150mV<br>±20mA      | K/J/N/C/E/B/T/R/S<br>Thermocouple;<br>±2.5V, ±1V, ±500mV,<br>±100mV, ±50mV,<br>±15mV, ±20mA | RTD: PT100,<br>NI 120 |   |                                 |
| <b>Analog Output</b>             |   |   |                       |   |                                 |
| Channel                          |   |   |                       | 4   |                                 |
| Resolution                       |   |   |                       | 12 bits   |                                 |
| Output Range                     |   |   |                       | 0-10V, ±10V; 0-20mA                             |                                 |
| <b>Digital Input</b>             |   |   |                       |   |                                 |
| Channel                          |   |   |                       |   | 14                              |
| Input Mode                       |   |   |                       |   | DI/Event Counter                |
| Driving Capacity                 |   |   |                       |   | Logic 1: 30Vmax / Logic 0: 0-4V |
| <b>Digital Output</b>            |   |   |                       |   |                                 |
| Channel                          |   |   |                       |   | 8                               |
| Output Mode                      |   |   |                       |   | DO/Pulse Output                 |
| Driving Capacity                 |   |   |                       |   | 5-40V range, 250mA max          |
| <b>Mechanical</b>                |   |   |                       |   |                                 |
| Dimension (mm)                   | 120 (H) x 55 (W) x 75 (D)                       |   |                       | 120 (H) x 55 (W) x 75 (D)                       |                                 |
| Mounting                         | Din Rail Mount                                  |   |                       | Din Rail Mount                                  |                                 |
| Case Protection                  | Rigid Aluminum with IP31 Protection             |   |                       | Rigid Aluminum with IP31 Protection             |                                 |
| Operating Temperature            | -25 ~ 70°C                                      |   |                       | -25 ~ 70°C                                      |                                 |
| <b>Feature</b>                   |   |   |                       |   |                                 |
| Isolation                        | 2500Vrms  |   |                       | 2500Vrms  |                                 |
| Peer to Peer                     | ●   | ●   | ●                     | ●   | ●                               |
| Unicast                          | ●   | ●   | ●                     | ●   | ●                               |
| Modbus/TCP                       | ●   | ●   | ●                     | ●   | ●                               |
| OPC Server                       | Free  | Free  | Free                  | Free  | Free                            |
| Window Utility                   | ●   | ●   | ●                     | ●   | ●                               |
| SNMP                             | ●   | ●   | ●                     | ●   | ●                               |
| Active I/O                       | ●   | ●   | ●                     | ●   | ●                               |
| Condition&Go Logic, P2P Mapping  | ●   | ●   | ●                     | ●   | ●                               |
| SDK (VB, VB. NET, VC++, BCB, C#) | ●   | ●   | ●                     | ●   | ●                               |
| Others                           | Web Display, DHCP Client, BootP Upgrade, TCP/IP |   |                       | Web Display, DHCP Client, BootP Upgrade, TCP/IP |                                 |
| <b>Certification</b>             |   |   |                       |   |                                 |
| Regulatory Approvals: CE / FCC   | ●   | ●   | ●                     | ●   | ●                               |
| RoHS/WEEE                        | ●   | ●   | ●                     | ●   | ●                               |

## Jet/O 6510

### Intelligent 8-CH Analog Input Ethernet I/O Server

- Ethernet Block I/O with 8 Channel Analog Input from 150mV to 10V, 20mA
- 16 bits resolution and high accuracy
- High/Low Voltage/Current active alarm
- Intelligent Condition&Go (IF-Then) logic rules
- Flexible peer-to-peer I/O through one-to-one, one-to-many, many-to-one, and many-to-many communication
- Unicast for network efficiency and true remote I/O
- Free OPC server and Modbus/TCP support
- Built-in watchdog timer and real-time clock
- SNMP / Web for easy configuration and management
- IP31 grade case protection
- -25~70°C operating temperature for hazardous environmental application



Best IO Modules of Automation-2009



CE FC ~~RoHS~~

- 8-CH Analog Input
- P2P
- SDK
- Modbus/TCP
- Free OPC
- IP31

## Jet/O 6511

### Intelligent 8-CH Thermocouple Input Ethernet I/O Server

- Ethernet Block I/O with 8 Channel Thermocouple Input, low voltage and wide range current Analog Input
- 16 bits resolution and high accuracy
- Accurate measurements with cold junction compensation
- High/Low Temperature/Current/voltage active alarm
- Intelligent Condition&Go (IF-Then) logic rules
- Flexible peer-to-peer I/O through one-to-one, one-to-many, many-to-one, and many-to-many communication
- Unicast for network efficiency and true remote I/O
- Free OPC server and Modbus/TCP support
- Built-in watchdog timer and real-time clock
- SNMP / Web for easy configuration and management
- IP31 grade case protection
- -25~70°C Operating temperature for hazardous environmental application



Best IO Modules of Automation-2009



CE FC ~~RoHS~~

- 8-CH Thermocouple
- P2P
- SDK
- Modbus/TCP
- Free OPC
- IP31

## Jet/O 6512

### Intelligent 4-CH RTD Input Ethernet I/O Server

- Ethernet Block I/O with 4 Channel RTD Input
- 16 bits resolution and high accuracy
- Supports 3-/4-/5-wire PT100, Ni120 types RTD
- High/Low Temperature active alarm
- Intelligent Condition&Go (IF-Then) logic rules
- Flexible peer-to-peer I/O through one-to-one, one-to-many, many-to-one, and many-to-many communication
- Unicast for network efficiency and true remote I/O
- Free OPC server and Modbus/TCP support
- Built-in watchdog timer and real-time clock
- SNMP / Web for easy configuration and management
- IP31 grade case protection
- -25~70°C operating temperature for hazardous environmental application



Best IO Modules of Automation-2009



CE FC RoHS

- 4-CH RTD
- P2P
- SDK
- Modbus/TCP
- Free OPC
- IP31

## Jet/O 6520

### Intelligent 4-CH Analog Output Ethernet I/O Server

- Ethernet Block I/O with 4 Channel Analog Output
- 12 bit resolution and high accuracy
- Independent output operation with 0-10V, —10V, 0-20mA
- Programmable output slew rate
- Intelligent Condition&Go (IF-Then) logic rules
- Flexible peer-to-peer I/O through one-to-one, one-to-many, many-to-one, and many-to-many communication
- Unicast for network efficiency and true remote I/O
- Free OPC server and Modbus/TCP support
- Built-in watchdog timer and real-time clock
- SNMP / Web for easy configuration and management
- IP31 grade case protection
- -25~70°C operating temperature for hazardous environmental application



Best IO Modules of Automation-2009



CE FC RoHS

- 4-CH Analog Input
- P2P
- SDK
- Modbus/TCP
- Free OPC
- IP31

## JetI/O 6550

### Intelligent 14-CH DI and 8-CH DO Ethernet I/O Server

- 14-Ch Digital Input with DI and Event Counter mode
- 8-Ch Digital Output with DO and Pulse Output mode
- Intelligent Condition&Go (IF-Then) logic rules
- Active events by logic rules or SNMP Trap
- Flexible peer-to-peer I/O through one-to-one, one-to-many, many-to-one, and many-to-many communication
- Unicast for network efficiency and true remote I/O
- Free OPC server and Modbus/TCP support
- Built-in watchdog timer and real-time clock
- SNMP / Web for easy configuration and management
- Din-Rail mount with robust aluminum case and IP31 protection
- -25~70°C Operating temperature for hazardous environmental application



Best IO Modules of Automation-2009



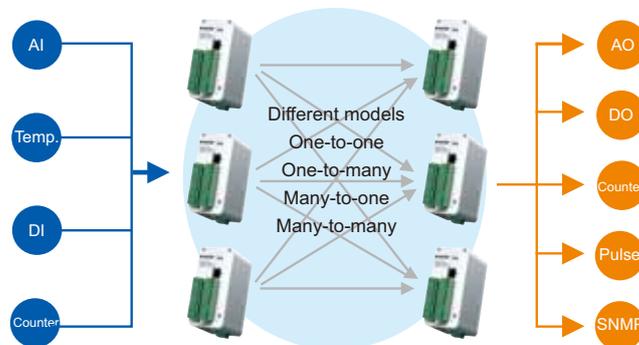
CE FC RoHS

|            |          |      |
|------------|----------|------|
| 14DI+8DO   | P2P      | SDK  |
| Modbus/TCP | Free OPC | IP31 |

### Peer to Peer IO – Efficient Solution to Extend IO Signals

JetI/O series support advanced peer-to-peer remote I/O function for extending IO signals over an Ethernet or IP network. With this enhancement, all JetI/O modules, including analog input, analog output, temperature detection, digital input/output models, can interact with one another in a flexible, effective manner by building a real-time network communication and thus allowing users to save energy and reduce network traffic.

The logic result of I/O channels from one JetI/O device can be sent to more than one peer JetI/O devices, without additional intermediate controllers, for modifying their channel status. The communication is very flexible, including “one-to-one”, “one-to-many”, “many-to-one”, as well as “many-to-many” scenarios. With their flexible design, the AO/DO/Counter/Pulse channels can remotely react to the AI/Temperature/DI/Counter channels.





## Korenix Industrial Product Selection Guide - Media Converter



JetCon 2502



JetCon 3401G



JetCon 2301



JetCon 2302



JetCon 1301



JetCon 1302

Ethernet over VDSL Extender    Gigabit Media Converter    Mini Media Converter    Mini Media Converter    Compact Media Converter

| Interface                     |                               |                                   |  |  |   |  |
|-------------------------------|-------------------------------|-----------------------------------|--|--|---|--|
| Number of Ports:10/100Base-TX | 1                             | 10/100/1000 Base-T                | 1  | 2  | 1   | 2  |
| Number of Ports: PoE Injector |                               |                                   |  |  |   |  |
| Number of Ports:100Base-FX    | VDSL 2 x 1<br>ISDN / POTS x 1 | Gigabit SFP                       | 1  | 2  | 1   | 1  |
| (Multi Mode Fiber)            |                               |                                   | JetCon 2301-m  | JetCon 2302-m  | JetCon 1301-m   | JetCon 1302-m  |
| (Single Mode Fiber)           |                               |                                   | JetCon 2301-s  | JetCon 2302-s  | JetCon 1301-s   | JetCon 1302-s  |
| Number of Serial Ports        |                               |                                   |  |  |   |  |
| I/O Channel                   |                               |                                   |  |  |   |  |
| Power Terminal                | DC12~48V                      | DC24V*2 (12~48)<br>-48V(Optional) | DC 10~60V * 2  | DC 10~60V * 2  | DC18~32V/AC18~27V (JetCon 1301/1302)<br>DC36~60V(JetCon 1301-48V) |  |
| Power Jack                    | DC12~48V                      |                                   |  |  |   |  |
| Fault Relay Output            |                               | •                                 | •  | •  |   | •  |
| 1500VAC HIPOT                 |                               | •                                 | •  | •  | •   | •  |
| Mechanical                    |                               |                                   |  |  |   |  |
| Rigid Aluminum Case           | •                             | •                                 | •  | •  | •   | •  |
| Case Protection               | IP 30                         | IP 31                             | IP 31  | IP 31  | IP 31   | IP 31  |
| Dimensions (unit=mm)          | 29 (H) x 88 (W)<br>x114 (D)   | 55 (W) x 120 (H)<br>x 108 (D)     | 55 (W) x 120 (H)<br>x 99 (D)                             | 55 (W) x 120 (H)<br>x 99 (D)                             | 30 (W) x 70 (H)<br>x 89 (D)                                       | 30 (W) x 111.8 (H)<br>x 98.2 (D)                         |
| Operating Temperature         | -40~70°C                      | -25~70°C                          | -25~75°C<br>(JetCon 2301)<br>-40~75°C<br>(JetCon 2301-w) | -25~75°C<br>(JetCon 2302)<br>-40~75°C<br>(JetCon 2302-w) | -10~70°C<br>(JetCon 1301)<br>-40~80°C<br>(JetCon 1301-w)          | -10~70°C<br>(JetCon 1302)<br>-40~70°C<br>(JetCon 1302-w) |
| DIN-Rail Kit                  | •                             | •                                 | •  | •  | •   | •  |
| Protocols                     |                               |                                   |  |  |   |  |
| Web-based Configuration       |                               |                                   |  |  |   |  |
| Windows Utility               |                               |                                   |  |  |   |  |
| Secured HTTPS,SSH             |                               |                                   |  |  |   |  |
| Link Loss Forwarding          |                               | •                                 | •  | •  | •   |  |
| Switch Mode                   | •                             | •                                 | •  | •  | •   | •  |
| Converter Mode                |                               |                                   | •  | •  | •   |  |
| Pure Converter Mode           |                               |                                   | •  |  |   |  |
| Modify Cut-through            |                               |                                   | •  |  |   |  |
| Redundant Dual Ethernet       |                               |                                   |  |  |   |  |
| IGMP Snooping                 |                               |                                   |  |  |   |  |
| Quality of Service            | •                             | •                                 |  |  |   |  |
| SMTP(e-mail warning)          |                               |                                   |  |  |   |  |
| Syslog                        |                               |                                   |  |  |   |  |
| Certifications                |                               |                                   |  |  |   |  |
| Regulatory Approvals:CE / FCC | •                             | •                                 | •  | •  | •   | •  |
| RoHS / WEEE                   | •                             | •                                 | •  | •  | •   | •  |
| NEMA-TS2                      |                               |                                   | •  | •  |   |  |

## Korenix Industrial Product Selection Guide - Media Converter



JetCon 6330



JetCon 6350



JetCon 2201-w  
JetCon 2201i-w



JetCon 2401

|  | Ethernet I/O Converter   |                     | RS 232 to RS 422/485      | Fiber Media Converter                              |
|--|--------------------------|---------------------|---------------------------|--|
| <b>Interface</b>                                 |                          |                     |                           |  |
| Number of Ports:10/100Base-TX                    | 1                        | 1                   |                           |  |
| Number of Ports: PoE Injector                    |                          |                     |                           |  |
| Number of Ports:100Base-FX<br>(Multi Mode Fiber) |                          |                     |                           | Serial Fiber                                       |
| (Single Mode Fiber)                              |                          |                     |                           | JetCon 2401-m                                      |
| Number of Serial Ports                           |                          |                     | 1xRS232<br>1x422/485      | JetCon 2401-s<br>RS232/422/485                     |
| I/O Channel                                      | 16-CH DI                 | 12-CH DI<br>4-CH DO |                           |  |
| Power Terminal                                   | DC10~30V<br>24V          | DC10~30V<br>24V     | DC12~48V                  | DC12~48V<br>AC18~32V                               |
| Power Jack                                       |                          |                     |                           |  |
| Fault Relay Output                               |                          |                     |                           |  |
| 1500VAC HIPOT                                    |                          |                     |                           |  |
| <b>Mechanical</b>                                |                          |                     |                           |  |
| Rigid Aluminum Case                              | ●                        | ●                   | ●                         | ●  |
| Case Protection                                  | IP 31                    | IP 31               | IP 30                     | IP 30  |
| Dimensions (unit=mm)                             | 120(W) x 55 (H) x 99 (D) |                     | 74(W) x 24.7 (H) x 96 (D) | 74(W) x 24.7 (H) x 96 (D)                          |
| Operating Temperature                            | -25~70°C                 | -25~70°C            | -40~70°C                  | -20~70°C (JetCon 2401)<br>-40~70°C (JetCon 2401-w) |
| DIN-Rail Kit                                     | ●                        | ●                   | DIN-Rail/Wall mount       | DIN-Rail/Wall mount                                |
| <b>Protocols</b>                                 |                          |                     |                           |  |
| Web-based Configuration                          | ●                        | ●                   |                           |  |
| Windows Utility                                  | ●                        | ●                   |                           |  |
| Secured HTTPS,SSH                                |                          |                     |                           |  |
| Link Loss Forwarding                             |                          |                     |                           |  |
| Switch Mode                                      |                          |                     |                           |  |
| Converter Mode                                   |                          |                     |                           |  |
| Redundant Dual Ethernet                          |                          |                     |                           |  |
| IGMP Snooping                                    |                          |                     |                           |  |
| Quality of Service                               |                          |                     |                           |  |
| SMTP(e-mail warning)                             |                          |                     |                           |  |
| Syslog   |                          |                     |                           |  |
| <b>Certifications</b>                            |                          |                     |                           |  |
| Regulatory Approvals:CE / FCC                    | ●                        | ●                   | ●                         | ●  |
| RoHS / WEEE                                      | ●                        | ●                   | ●                         | ●  |

## JetCon 2502

### Ethernet over VDSL Extender

- IEEE 802.3u 100Base-TX Fast Ethernet Converter
- IEEE 802.3x flow control & Back-pressure
- ITU-T G.933.2 VDSL2 standard
- 2 x RJ-11 connectors for POTS/ISDN and VDSL 2
- One RJ-45 10/100Mbps Fast Ethernet Port
- Built-in POTS/ISDN Splitter
- Extend Voice and Ethernet transmission distance to 1KM
- Transparent 1792 bytes packet size
- Quality of service with broadcast packet filtering
- DC 12~48V Power input by power jack and terminal block
- Operating temperature -40~70°C

| JetCon 2502, Fast mode, without noise,<br>SNR 6dB 26AWG Twisted pair cable |                         |                         |                |      |      |
|--|-------------------------|-------------------------|----------------|------|------|
| Cable Length<br>Feet / Meter   | Line Rate (Mb)<br>US DS | Line Rate (Mb)<br>US DS | Data Rate (Mb) |      |      |
|  |                         |                         | US             | DS   |      |
| 0  | 0                       | 99.1                    | 90.1           | 89.0 | 81.0 |
| 1000   | 303.0                   | 72.7                    | 77.7           | 65.3 | 69.8 |
| 2000   | 606.0                   | 31.9                    | 41.7           | 28.6 | 37.4 |
| 3000   | 909.0                   | 14.8                    | 24.5           | 13.1 | 22.0 |
| 5000   | 1515.0                  | 1.1                     | 17.7           | 0.8  | 15.8 |
| 8000   | 2424.0                  | 0.6                     | 4.5            | 0.4  | 3.9  |

\* US: Upstream

\* DS: Downstream

\* Impulse Protection Setting: On (Interleave)/ Off (Fast); Forwarding Latency of Interleave mode is less than 250ms ; Fast mode is less than 2 ms



CE FC RoHS

- VDSL2
- Built-in Splitter
- Ethernet Extender
- 1KM
- 40~70°C

## JetCon 3401G

### Industrial Gigabit Ethernet Media Converter

- Converts 10/100/1000TX to Gigabit Fiber
- Flexible SFP Fiber transceiver design
- Auto Fault Detection and Alarm
- Fault Alert for port and power
- Link Loss Forwarding Technology (LLF)
- IEEE 802.1p QoS for data precedence transmission
- Redundant power input DC 12~48V
- Aluminum case with IP-31 grade protection
- 1.5KV Hi-Pot testing passed
- Operating temperature -25~70°C

Best Buy



CE FC RoHS

- Giga
- LLF
- QoS
- 1.5KV Isolation
- 25~70°C

## JetCon 2301

### Fast Ethernet to Fiber Media Converter

- One 10/100 TX port to One 100FX port media converter
- Auto Link Loss Forwarding (LLF) for fault detection
- Supports Multi-Forwarding modes – Store and Forward, Modify Cut-through, Pure Converter and Converter with auto change modes
- Supports Auto MDI/MDI-X, Auto Negotiation
- Supports Multi-mode 2KM, Single-mode 30KM
- Extreme Low Data Forwarding Latency-  $1.6 \times 10^{-6}$  Sec
- Redundant 10~60V DC Power inputs with DC polarity protection
- Aluminum case with IP-31 grade protection
- Supports 1.5KV Hi-Pot isolation protection
- NEMA-TS2 Compliance (applying)
- Operating temperature -25~75°C (-40~75°C wide operating temperature model available by request)



CE FC ~~RoHS~~ RoHS



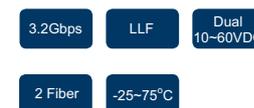
## JetCon 2302

### 2-Port Fast Ethernet to Fiber Media Converter

- Two Channels 10/100 TX to 100 FX media converter
- Two 10/100TX with 2 100FX Fast Ethernet Fiber Switch
- Supports Auto MDI/MDI-X, Auto Negotiation
- Supports Multi-mode 2KM, Single-mode 30KM
- 3.2Gbps Non-Blocking Switch Fabric
- Auto Link Loss Forwarding (LLF) for fault detection
- Power and Port event alarm
- Redundant 10~60V DC Power inputs with DC polarity protection
- NEMA -TS2 Compliance (applying)
- Aluminum case with IP-31 grade protection
- Supports 1.5KV Hi-Pot isolation protection
- Operating temperature -25~75°C (-40~75°C wide operating temperature model available by request)



CE FC ~~RoHS~~ RoHS



## JetCon 1301 / 1301-48V

### Slim-sized Fast Ethernet to Fiber Media Converter

- One 10/100 TX port to One 100FX port media converter
- Dual Forwarding modes- Switching and Pure converter
- Supports Auto MDI/MDI-X, Auto Negotiation
- Supports Multi-mode 2KM, Single-mode 30KM
- Auto Link Loss Forwarding for fault detection
- Extreme Low Data Forwarding Latency-  $1.6 \times 10^{-6}$  Sec
- Wide range of AC18-27V/DC18-32V and DC36-60 (JetCon 1301-48V) power inputs with DC polarity protection
- Aluminum case with IP-31 grade protection
- Supports 1.5KV Hi-PoT isolation protection
- Supports single fiber transmission – WDM
- Operating temperature -10~70°C (-40~80°C wide operating temperature model available by request)

Best Buy



CE FC ~~RoHS~~



## JetCon 1302

### 2-Port Fast Ethernet to Fiber Media Converter

- Two 10/100 TX ports to One 100FX port media converter
- Supports 1.5KV Hi-Pot isolation protection
- Supports Auto MDI/MDI-X, Auto Negotiation
- Supports Multi-mode 2KM, Single-mode 30KM
- Dual modes for power input, AC18-27V/DC18-32V
- Fault Relay Output for port alarm
- Compact Aluminum case with IP-31 grade protection
- Operating temperature -10~70°C (-40~70°C wide operating temperature available by request)



CE FC ~~RoHS~~



## JetCon 6330 / 6350

### 16-CH DI / 12-CH DI + 4-CH DO Smart Ethernet I/O Converter

- 16-Ch Digital Inputs with DI and Event Counter mode (JetCon 6330)
- 12-Ch Digital Inputs plus 4-Ch Digital Outputs (JetCon 6350)
- Multi-form Peer to Peer operating, point to point, point to multiple point modes
- Smart logic rules
- Industrial Modbus/TCP protocol
- Windows Utility and Web Display
- Built-in watchdog protects against system failure
- Safe mode operation for network link loss
- Din-Rail mount with robust aluminum case and IP31 protection
- -25~70°C operating temperature for hazardous environment application



JetCon 6330

JetCon 6350

CE FC ~~RoHS~~

Modbus P2P -25~70°C

## JetCon 2201-w / 2201i-w

### 2-Port Fast Ethernet to Fiber Media Converter

- Automatic RS-232 to RS-422/485 converter
- Auto baud rate and direction control
- High speed up to 921.6 Kbps
- RS-422/485 3000VDC isolation protection (JetCon 2201i-w)
- Supports RX bias and terminal resistor
- Easy configuration by DIP switch without resetting power
- Din-Rail mount and wall mount robust aluminum case
- -40~70°C operating temperature for hazardous environment applications



CE FC ~~RoHS~~

921.6Kbps 3KV Isolation -40~70°C

## JetCon 2401 / 2401-w

### Industrial Serial to Fiber Media Converter

- 3-in-1 RS232/422/485 to serial fiber media converter
- Easy mode change without resetting
- Supports Multi-mode 5KM, Single-mode 40KM
- PTP or SFR transmission mode for serial fiber ring communication
- Auto baud rate and direction control
- High level immunity with 15KV ESD protection
- Two-way 120 ohm line terminator
- Supports biasing resistor
- Dual modes for power input, AC 24V(12~32V)/ DC 24V(12~48V)
- -20~70°C operating temperature for hazardous environment applications (-40~70°C wide operating temperature available by request)

Best Buy



CE FC ~~RoHS~~

SFR PTP 15KV ESD -20~70°C



## Korenix Industrial Product Selection Guide - Serial Device Server



JetPort 5216



JetPort 5208



JetPort 5604



JetPort 5604i

|  | Rackmount Serial Server | Rackmount Serial Server | Redundant Serial Server | Isolation Redundant Serial Server |
|--|-------------------------|-------------------------|-------------------------|-----------------------------------|
|--|-------------------------|-------------------------|-------------------------|-----------------------------------|

| <b>Interface</b>                   |   |             |                                       |                                       |
|------------------------------------|---|-------------|---------------------------------------|---------------------------------------|
| Number of Ports:10/100Base-TX      | 1                                       | 1           | 2(Redundant)                          | 2(Redundant)                          |
| Number of Serial Ports             | 16*RS232                                | 8*RS232     | 4*RS232/422/485                       | 4*RS422/485 with 2KV Isolation        |
| AC Power Input                     | 100~240 VAC                             | 100~240 VAC |                                       |                                       |
| Power Terminal                     |   |             | DC12~48V                              | DC12~48V                              |
| Power Jack                         |   |             | DC12~48V                              | DC12~48V                              |
| Fault Relay Output                 |   |             | 4 Digital Inputs<br>2 Digital Outputs | 4 Digital Inputs<br>2 Digital Outputs |
| 1200VAC HIPOT                      |   |             | •                                     | •                                     |
| <b>Mechanical</b>                  |   |             |                                       |                                       |
| Aluminum Case                      |   |             | •                                     | •                                     |
| Dimensions (unit=mm)               | 437.2(W) x 214(H) x 44(D), 1U Rackmount |             | 145(W) x 46.5(H) x 120(D)             | 145(W) x 46.5(H) x 120(D)             |
| Case Protection                    |   |             | IP 31                                 | IP 31                                 |
| Operating Temperature              | 0~50°C                                  | 0~50°C      | -10~70°C                              | -10~70°C                              |
| DIN-Rail Kit                       |   |             | •                                     | •                                     |
| <b>Protocols</b>                   |   |             |                                       |                                       |
| Web-based Configuration            | •                                       | •           | •                                     | •                                     |
| Windows Utility                    | •                                       | •           | •                                     | •                                     |
| Secured HTTPS,SSH                  | •                                       | •           | •                                     | •                                     |
| RTTD, Redundant Dual Ethernet      |   |             | •                                     | •                                     |
| SNMP V1/V2C                        | •                                       | •           | •                                     | •                                     |
| SMTP(e-mail warning)               |   |             | •                                     | •                                     |
| Syslog                             | •                                       | •           | •                                     | •                                     |
| <b>Certifications</b>              |   |             |                                       |                                       |
| Regulatory Approvals:CE / FCC / UL | •                                       | •           | CE / FCC                              | CE / FCC                              |
| RoHS / WEEE                        | •                                       | •           | •                                     | •                                     |

## Korenix Industrial Product Selection Guide - Serial Device Server



JetPort 5601

JetPort 5601f

JetPort 5801

JetPort 5201

Redundant Serial Server      Fiber Serial Server      Wireless Device Server      Serial Server

| <b>Interface</b>                                 |                           |                  |                            |                           |
|--|---------------------------|------------------|----------------------------|---------------------------|
| Number of Ports:10/100Base-TX                    | 2(Redundant)              |                  | 1                          | 1                         |
| Number of Ports: WLAN                            |                           |                  | 1                          |                           |
| Number of Ports:100Base-FX<br>(Multi Mode Fiber) |                           | 1                |                            |                           |
| (Single Mode Fiber)                              |                           | JetPort 5601f-m  |                            |                           |
|  |                           | JetPort 5601f-s  |                            |                           |
| Number of Serial Ports                           | 1* RS232/422/485          | 1* RS232/422/485 | 1* RS232/422/485           | 1* RS232                  |
| Power Terminal                                   | DC12~48V                  | DC12~48V         | DC12~48V                   |                           |
| Power Jack                                       | DC9~30V                   | DC9~30V          | DC12~48V                   | DC9~30V                   |
| <b>Fault Relay Output</b>                        |                           |                  |                            |                           |
| 1200VAC HIPOT                                    | •                         | •                | •                          | •                         |
| <b>Mechanical</b>                                |                           |                  |                            |                           |
| Aluminum Case                                    | •                         | •                | •                          | •                         |
| Dimensions (unit=mm)                             | 96.1(W) x 29.6(H) x 99(D) |                  | 96.1(W) x 29.6(H) x 124(D) | 78.5(W)x29.2(H) x 79.6(D) |
| Case Protection                                  | IP 30                     | IP 30            | IP 30                      | IP 30                     |
| Operating Temperature                            | -10~70°C                  | -10~70°C         | -10~55°C                   | 0~60°C                    |
| DIN-Rail Kit                                     | •                         | •                | •                          | •                         |
| <b>Protocols</b>                                 |                           |                  |                            |                           |
| Web-based Configuration                          | •                         | •                | •                          | •                         |
| Windows Utility                                  | •                         | •                | •                          | •                         |
| Secured HTTPS,SSH                                | •                         | •                | •                          |                           |
| RTTD, Redundant Dual Ethernet                    | •                         |                  |                            |                           |
| SNMP V1/V2C                                      | •                         | •                | •                          | •                         |
| SMTP(e-mail warning)                             | •                         | •                | •                          | •                         |
| Syslog   | •                         | •                | •                          | •                         |
| <b>Certifications</b>                            |                           |                  |                            |                           |
| Regulatory Approvals:CE / FCC / UL               | •                         | •                | CE / FCC                   | •                         |
| RoHS / WEEE                                      | •                         | •                | •                          | •                         |

## USA Control (DeviceMaster) - Industrial Serial-Ethernet Server



RTS VDC 1-Port DB9 (99440-4)    RTS 2-Port 1E (99480-0)    RTS 2-Port 2E (99481-7)    RTS DB9 2-Port 1E (99550-0)    RTS DB9 2-Port 2E (99560-9)

| <b>Hardware</b>                                 |                          |                         |                       |                             |                           |
|---|--------------------------|-------------------------|-----------------------|-----------------------------|---------------------------|
| Number of port: 10/100Base-TX                   | 1                        | 1                       | 2                     | 1                           | 2                         |
| Number of Serial port                           | 1 x RS232/422/485        | 2 x RS232/422/485       | 2 x RS232/422/485     | 2 x RS232/422/485           | 2 x RS232/422/485         |
| Serial Baud Rate                                | 300 to 230.4Kbps         | 300 to 230.4Kbps        | 300 to 230.4Kbps      | 300 to 230.4Kbps            | 300 to 230.4Kbps          |
| Serial Interface                                | DB9M                     | Screw Terminal          | Screw Terminal        | DB9M                        | DB9M                      |
| Power Input                                     | 5-30VDC Terminal (2.5W)  | 5-30VDC Terminal (1.5W) | 5-30VDC Terminal (2W) | 2 x 6-30VDC Terminal (1.6W) | 2 x 6-30VDC Terminal (2W) |
| Serial Surge protect                            | 15KV                     | 25KV                    | 25KV                  | 25KV                        | 25KV                      |
| <b>Environmental Specifications</b>             |                          |                         |                       |                             |                           |
| MTBF  | 46.2 Years               | 58.57 Years             | 45.66 Years           | 58.57 Years                 | 49.5 Years                |
| Enclosure                                       | STAINLESS STEEL          | UL94-V0 PLASTIC         | UL94-V0 PLASTIC       | UL94-V0 PLASTIC             | UL94-V0 PLASTIC           |
| Dimension                                       | 3.6" x 0.8" x 2.8"       | 4.37" x 3.9" x 0.89"    | 4.37" x 3.9" x 1.78"  | 4.6" x 3.9" x 0.9"          | 4.6" x 3.9" x 1.8"        |
| Operating temperature                           | -37~74°C                 | -37~74°C                | -37~74°C              | -37~74°C                    | -37~74°C                  |
| Installation Method                             | DIN Rail/Panel Mountable | DIN Rail                | DIN Rail              | DIN Rail                    | DIN Rail                  |
| <b>Device Drivers</b>                           |                          |                         |                       |                             |                           |
| Windows 2000/Server 2008/XP                     | ●                        | ●                       | ●                     | ●                           | ●                         |
| Windows Vista                                   | ●                        | ●                       | ●                     | ●                           | ●                         |
| Windows 7                                       | ●                        | ●                       | ●                     | ●                           | ●                         |
| Linux   | ●                        | ●                       | ●                     | ●                           | ●                         |
| <b>Software</b>                                 |                          |                         |                       |                             |                           |
| TCP, UDP Socket                                 | ●                        | ●                       | ●                     | ●                           | ●                         |
| PortVision® Plus remote monitoring & management | ●                        | ●                       | ●                     | ●                           | ●                         |
| Web-based configuration                         | ●                        | ●                       | ●                     | ●                           | ●                         |
| SSL & SSH encryption                            | ●                        | ●                       | ●                     | ●                           | ●                         |
| E-mail event notification                       | ●                        | ●                       | ●                     | ●                           | ●                         |
| <b>Certification</b>                            |                          |                         |                       |                             |                           |
| RoHS 2002/95/EC                                 | ●                        | ●                       | ●                     | ●                           | ●                         |
| CE/FCC/UL/RoHS                                  | ●                        | ●                       | ●                     | ●                           | ●                         |
| NEMA TS2  | ●                        | ●                       | ●                     | ●                           | ●                         |
| Warranty  | 2 Years                  | 2 Years                 | 2 Years               | 2 Years                     | 2 Years                   |

## USA Control (DeviceMaster) - Industrial Serial-Ethernet Server



RTS 4-Port DB9 (99445-9)

RTS 8-Port DB9 (99448-0)

RTS 16-Port RJ45 (99455-8)

RTS 32-Port RJ45 (99456-5)

| <b>Hardware</b>                                 |   |   |                         |                         |
|---|---|---|-------------------------|-------------------------|
| Number of port: 10/100Base-TX                   | 2   | 2   | 1                       | 1                       |
| Number of Serial port                           | 4 x RS232/422/485   | 8 x RS232/422/485   | 16 x RS232/422/485      | 32 x RS232/422/485      |
| Serial Baud Rate                                | 300 to 230.4Kbps  | 300 to 230.4Kbps  | 300 to 230.4Kbps        | 300 to 230.4Kbps        |
| Serial Interface                                | DB9M  | DB9M  | RJ45                    | RJ45                    |
| Power Input                                     | 9-30VDC Terminal External Power Supply included: 90-240VAC(US/EU) input | 9-30VDC Terminal External Power Supply included: 90-240VAC(US/EU) input | 100-240VAC (US/EU Cord) | 100-240VAC (US/EU Cord) |
| Serial Surge protect                            | 15KV  | 15KV  | 15KV                    | 15KV                    |
| <b>Environmental Specifications</b>             |   |   |                         |                         |
| MTBF  | 25.0 Years  | 21.5 Years  | 8.1 Years               | 6 Years                 |
| Enclosure                                       | Black Finished Steel  | Black Finished Steel  | Black Finished Steel    | Black Finished Steel    |
| Dimension                                       | 10.8" x 1.8" x 6.3"   | 10.8" x 1.8" x 6.3"   | 17.25" x 1.74" x 10.8"  | 17.25" x 1.74" x 10.8"  |
| Operating temperature                           | -37°~ 74°C  | -37°~ 74°C  | -37°~ 74°C              | -37°~ 74°C              |
| Installation Method                             | Panel Mountable   | Panel Mountable   | Rack mountable          | Rack mountable          |
| <b>Device Drivers</b>                           |   |   |                         |                         |
| Windows 2000/Server 2008/XP                     | •   | •   | •                       | •                       |
| Windows Vista                                   | •   | •   | •                       | •                       |
| Windows 7                                       | •   | •   | •                       | •                       |
| Linux   | •   | •   | •                       | •                       |
| <b>Software</b>                                 |   |   |                         |                         |
| TCP, UDP Socket                                 | •   | •   | •                       | •                       |
| PortVision® Plus remote monitoring & management | •   | •   | •                       | •                       |
| Web-based configuration                         | •   | •   | •                       | •                       |
| SSL & SSH encryption                            | •   | •   | •                       | •                       |
| E-mail event notification                       | •   | •   | •                       | •                       |
| <b>Certification</b>                            |   |   |                         |                         |
| RoHS 2002/95/EC                                 | •   | •   | •                       | •                       |
| CE/FCC/UL/RoHS                                  | •   | •   | •                       | •                       |
| NEMA TS2  | •   | •   |                         |                         |
| Warranty  | 2 Years   | 2 Years   | 2 Years                 | 2 Years                 |

## Korenix Industrial Product Selection Guide - SFP / D.D.M. Technology



| Fiber Transceiver               | Speed       | Distance                 | Wave-length | Operation Temperature |                      |
|---------------------------------|-------------|--------------------------|-------------|-----------------------|----------------------|
| SFP100MM/SFP100MM-w             | Multi-mode  | 100Mbps                  | 2KM         | 1310nm                | -10~70°C/-40~85°C(W) |
| SFP100MMD/SFP100MMD-w           | Multi-mode  | 100Mbps DDM              | 2KM         | 1310nm                | -10~70°C/-40~85°C(W) |
| SFP100SM30/SFP100SM30-w         | Single-mode | 100Mbps                  | 30KM        | 1310nm                | -10~70°C/-40~85°C(W) |
| SFP100SM30D/SFP100SM30D-w       | Single-mode | 100Mbps DDM              | 30KM        | 1310nm                | -10~70°C/-40~85°C(W) |
| SFP100SM60/SFP100SM60-w         | Single-mode | 100Mbps                  | 60KM        | 1310nm                | -10~70°C/-40~85°C(W) |
| SFP100SM60D/SFP100SM60D-w       | Single-mode | 100Mbps DDM              | 60KM        | 1310nm                | -10~70°C/-40~85°C(W) |
| SFP100SM80/SFP100SM80-w         | Single-mode | 100Mbps                  | 80KM        | 1310nm                | -10~70°C/-40~85°C(W) |
| SFP100SM80D/SFP100SM80D-w       | Single-mode | 100Mbps DDM              | 80KM        | 1310nm                | -10~70°C/-40~85°C(W) |
| SFP100SM100/SFP100SM100-w       | Single-mode | 100Mbps                  | 100KM       | 1550nm                | -10~70°C/-40~85°C(W) |
| SFP100SM100D/SFP100SM100D-w     | Single-mode | 100Mbps DDM              | 100KM       | 1550nm                | -10~70°C/-40~85°C(W) |
| SFP100SM120/SFP100SM120-w       | Single-mode | 100Mbps                  | 120KM       | 1550nm                | -10~70°C/-40~85°C(W) |
| SFP100SM120D/SFP100SM120D-w     | Single-mode | 100Mbps DDM              | 120KM       | 1550nm                | -10~70°C/-40~85°C(W) |
| SFP100SM20B13/SFP100SM20B13-w   | Single-mode | 100Mbps BIDI/WDM         | 20km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |
| SFP100SM20B13D/SFP100SM20B13D-w | Single-mode | 100Mbps BIDI/WDM DDM     | 20km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |
| SFP100SM20B15/SFP100SM20B15-w   | Single-mode | 100Mbps BIDI/WDM         | 20km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFP100SM20B15D/SFP100SM20B15D-w | Single-mode | 100Mbps BIDI/WDM DDM     | 20km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFP100SM40B13/SFP100SM40B13-w   | Single-mode | 100Mbps BIDI/WDM         | 40km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |
| SFP100SM40B13D/SFP100SM40B13D-w | Single-mode | 100Mbps BIDI/WDM DDM     | 40km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |
| SFP100SM40B15/SFP100SM40B15-w   | Single-mode | 100Mbps BIDI/WDM         | 40km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFP100SM40B15D/SFP100SM40B15D-w | Single-mode | 100Mbps BIDI/WDM DDM     | 40km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFP100SM60B13/SFP100SM60B13-w   | Single-mode | 100Mbps BIDI/WDM         | 60km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |
| SFP100SM60B13D/SFP100SM60B13D-w | Single-mode | 100Mbps BIDI/WDM DDM     | 60km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |
| SFP100SM60B15/SFP100SM60B15-w   | Single-mode | 100Mbps BIDI/WDM         | 60km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFP100SM60B15D/SFP100SM60B15D-w | Single-mode | 100Mbps BIDI/WDM DDM     | 60km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFPGSX/SFPGSX-w                 | Multi-mode  | 1000Base-SX              | 550m        | 850nm                 | -10~70°C/-40~85°C(W) |
| SFPGXD/SFPGXD-w                 | Multi-mode  | 1000Base-SX DDM          | 550m        | 850nm                 | -10~70°C/-40~85°C(W) |
| SFPGSX2/SFPGSX2-w               | Multi-mode  | 1000Base-SX              | 2km         | 1310nm                | -10~70°C/-40~85°C(W) |
| SFPGSX2D/SFPGSX2D-w             | Multi-mode  | 1000Base-SX DDM          | 2km         | 1310nm                | -10~70°C/-40~85°C(W) |
| SFPGXL10/SFPGXL10-w             | Single-mode | 1000Base-LX              | 10km        | 1310nm                | -10~70°C/-40~85°C(W) |
| SFPGXL10D/SFPGXL10D-w           | Single-mode | 1000Base-LX DDM          | 10km        | 1310nm                | -10~70°C/-40~85°C(W) |
| SFPGHLX30/SFPGHLX30-w           | Single-mode | 1000Base-LHX             | 30km        | 1310nm                | -10~70°C/-40~85°C(W) |
| SFPGHLX30D/SFPGHLX30D-w         | Single-mode | 1000Base-LHX DDM         | 30km        | 1310nm                | -10~70°C/-40~85°C(W) |
| SFPGXD50/SFPGXD50-w             | Single-mode | 1000Base-XD              | 50km        | 1550nm                | -10~70°C/-40~85°C(W) |
| SFPGXD50D/SFPGXD50D-w           | Single-mode | 1000Base-XD DDM          | 50km        | 1550nm                | -10~70°C/-40~85°C(W) |
| SFPGZX70/SFPGZX70-w             | Single-mode | 1000Base-ZX              | 70km        | 1550nm                | -10~70°C/-40~85°C(W) |
| SFPGZX70D/SFPGZX70D-w           | Single-mode | 1000Base-ZX DDM          | 70km        | 1550nm                | -10~70°C/-40~85°C(W) |
| SFPGXL10B13/SFPGXL10B13-w       | Single-mode | 1000Base-LX BIDI/WDM     | 10km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |
| SFPGXL10B13D/SFPGXL10B13D-w     | Single-mode | 1000Base-LX BIDI/WDM DDM | 10km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |

## Korenix Industrial Product Selection Guide - SFP / D.D.M. Technology



| Fiber Transceiver           | Speed       | Distance                  | Wave-length | Operation Temperature |                      |
|-----------------------------|-------------|---------------------------|-------------|-----------------------|----------------------|
| SFPGLX10B15/SFPGLX10B15-w   | Single-mode | 1000 Base-LX BIDI/WDM     | 10km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFPGLX10B15D/SFPGLX10B15D-w | Single-mode | 1000 Base-LX BIDI/WDM DDM | 10km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFPGLX20B13/SFPGLX20B13-w   | Single-mode | 1000 Base-LX BIDI/WDM     | 20km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |
| SFPGLX20B13D/SFPGLX20B13D-w | Single-mode | 1000 Base-LX BIDI/WDM DDM | 20km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |
| SFPGLX20B15/SFPGLX20B15-w   | Single-mode | 1000 Base-LX BIDI/WDM     | 20km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFPGLX20B15D/SFPGLX20B15D-w | Single-mode | 1000 Base-LX BIDI/WDM DDM | 20km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFPGLX40B13/SFPGLX40B13-w   | Single-mode | 1000 Base-LX BIDI/WDM     | 40km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |
| SFPGLX40B13D/SFPGLX40B13D-w | Single-mode | 1000 Base-LX BIDI/WDM DDM | 40km        | TX 1310nm, RX 1550nm  | -10~70°C/-40~85°C(W) |
| SFPGLX40B15/SFPGLX40B15-w   | Single-mode | 1000 Base-LX BIDI/WDM     | 40km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFPGLX40B15D/SFPGLX40B15D-w | Single-mode | 1000 Base-LX BIDI/WDM DDM | 40km        | TX 1550nm, RX 1310nm  | -10~70°C/-40~85°C(W) |
| SFPGLX60B13                 | Single-mode | 1000 Base-LX BIDI/WDM     | 60km        | TX 1310nm, RX 1550nm  | -10~70°C             |
| SFPGLX60B13D                | Single-mode | 1000 Base-LX BIDI/WDM DDM | 60km        | TX 1310nm, RX 1550nm  | -10~70°C             |
| SFPGLX60B15                 | Single-mode | 1000 Base-LX BIDI/WDM     | 60km        | TX 1550nm, RX 1310nm  | -10~70°C             |
| SFPGLX60B15D                | Single-mode | 1000 Base-LX BIDI/WDM DDM | 60km        | TX 1550nm, RX 1310nm  | -10~70°C             |

DDM: Digital Diagnostic Monitoring

## Korenix Industrial Product Selection Guide - Industrial Power Supply



|             | Input Voltage Range                                | Output Voltage | Output Power | Working Temperature |
|-------------|--|----------------|--------------|---------------------|
| DR-4524     | 85 ~ 264VAC 120 ~ 370VDC                           | 24V            | 48W          | -10~50°C            |
| DR-75-24    | 85 ~ 264VAC 120 ~ 370VDC                           | 24V            | 76.8W        | -10~60°C            |
| DR-75-48    | 85 ~ 264VAC 120 ~ 370VDC                           | 48V            | 76.8W        | -10~60°C            |
| DR-120-24   | 88 ~ 132VAC/176 ~ 264VAC<br>by switch 248 ~ 370VDC | 24V            | 120W         | -10~60°C            |
| DRP-240-24  | 85 ~ 264VAC 120 ~ 370VDC                           | 24V            | 240W         | -10~70°C            |
| DRP-480S-24 | 90 ~ 132VAC/180 ~ 264VAC<br>by switch 254 ~ 370VDC | 24V            | 480W         | -20~70°C            |
| MDR-20-24   | 85 ~ 264VAC 120 ~ 370VDC                           | 24V            | 24W          | -20~70°C            |
| MDR-40-24   | 85 ~ 264VAC 120 ~ 370VDC                           | 24V            | 40.8W        | -20~70°C            |
| MDR-60-24   | 85 ~ 264VAC 120 ~ 370VDC                           | 24V            | 60W          | -20~70°C            |
| MDR-100-24  | 85 ~ 264VAC 120 ~ 370VDC                           | 24V            | 96W          | -10~60°C            |
| MDR-100-48  | 85 ~ 264VAC 120 ~ 370VDC                           | 48V            | 96W          | -10~60°C            |
| U65S111-P2J | 95 ~ 264VAC 140 ~ 370VDC                           | 48V            | 80W          | -10~40°C            |
| SDR-480-48  | 85 ~ 264VAC 120 ~ 370VDC                           | 48V            | 80W          | -20~70°C            |