IntesisBox®

for KNX

KNX

General catalogue 2013

ENGLISH

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your partner for **systems integration**

Intesis

General catalogue 20**13**

KNX · MODBUS · BACNET · LONWORKS · ENOCEAN · ASCII · OPC SERVER

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IntesisBox
products for KNX systems

KNX is the world´s only open Standard for the control in both commercial and residential buildings. KNX is approved as an International Standard (ISO/IEC 14543-3) as well as an European Standard (CENELEC EN 50090 and CEN EN 13321-1) and Chinese Standard (GB/Z 20965). KNX products made by different manufacturers can be combined. **This standard is based upon more than 20 years of experience in the market,** amongst others with predecessor systems to KNX: EIB, EHS and BatiBUS. Via the KNX medium to which all bus devices are connected (twisted pair, radio frequency, power line or IP/Ethernet), they are able to exchange information. Bus devices can either be sensors or actuators needed for the control of building management equipment such as: lighting, blinds / shutters, security systems, energy management, heating, ventilation and air-conditioning systems, signalling and monitoring systems, interfaces to service and building control systems, remote control, metering, audio / video control, white goods, etc Several millions of successful KNX installations can be found not only all over Europe but also in the Far East, North and South America. Over 100 KNX member companies worldwide offer almost 7.000 KNX certified product groups in their catalogues, from different application domains.

Source: KNX Association. For further information visit www.knx.org

IntesisBox® KNX gateways for Air Conditioners

Specially designed, in collaboration with several manufacturers like Mitsubishi Electric, Daikin, Panasonic, LG, Samsung, Mitsubishi Heavy Industries... to allow supervision and bidirectional control of all the parameters and functionality of Air conditioners and zonification systems from KNX installations.

- Easy installation
- Great integration flexibility, with direct configuration from the ETS or using the Intesis LinkBoxEIB software
- Possibility to use KNX temperature sensor to control the Air Conditioner
- Advanced functionality for high degree of comfort and energy savings.

IntesisBox KNX gateways for multi-protocol integration

IntesisBox® IBOX-KNX gateways have been specially designed to allow supervision and bidirectional control of all the parameters and functionality of LonWorks®, Modbus, BACnet/IP or EnOcean devices from KNX installations.

- Direct connection to field bus (no additional adapters required) KNX/TP, LON TP/FT10, RS485, RS232, Ethernet, wireless.
- Great integration flexibility

Easy integration of VRF air conditioning systems and Chillers equipped with LON, BACnet, or Modbus gateway, with templates available in LinkBox software for different integrations, i.e. Daikin, Mitsubishi Electric, Sanyo, Fujitsu, LG, Toshiba, Ciatesa, Hitecsa, Lennox, Carrier, etc. Integrate almost anything in your KNX projects: meters, PLC´s , AC, Chillers, HMI, card readers, thermostats, room controllers.

ME-AC-KNX-1-V2

IntesisBox® ME-AC-KNX-1-V2 allows monitoring and control, fully bi-directionally, of all the operational parameters of Mitsubishi Electric air conditioners from KNX installations.
Compatible with Domestic and Mr. Slim Series manufactured by Mitsubishi Electric.
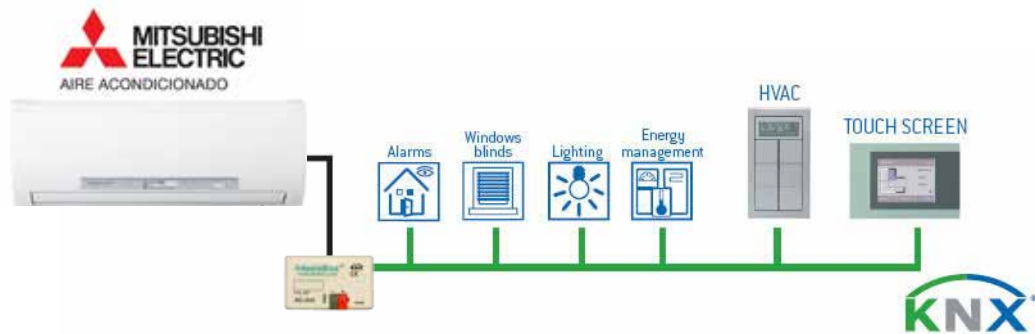
Specifications
- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX TP bus and to the AC indoor unit
- No external power supply required
- Small size (WxHxD): 59 x 36 x 21 mm.

Main features
- Easy installation, even inside the air conditioning indoor unit. Cable to connect to CN105 or CN92 connector is supplied.
- Great integration flexibility. Configured directly from the ETS.
- Special communication objects for increasing comfort and energy savings: Open window, Working hours counter, Save /execute scenes, Enable/Disable device, Enable/disable remote controller,...
- "Virtual temperature" functionality. Useful when an external ambient temperature reference is required (KNX sensor or thermostat) to control the AC, or when the heating and AC unit need to be controlled from the same KNX thermostat.
- Simultaneous control from KNX and from the IR controller of the Air Conditioner.

Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_ME-AC-KNX-1_datasheet_eng.pdf
Compatibility list: http://www.intesis.com/pdf/IntesisBox_ME-AC-xxx-1_AC_Compatibility.pdf

Intesis

ME-AC-KNX-1i

IntesisBox® ME-AC-KNX-1i allows monitoring and control, fully bi-directionally, of all the operational parameters of Mitsubishi Electric air conditioners from KNX installations.
Compatible with Domestic and Mr. Slim Series manufactured by Mitsubishi Electric. 4 free-use binary inputs.
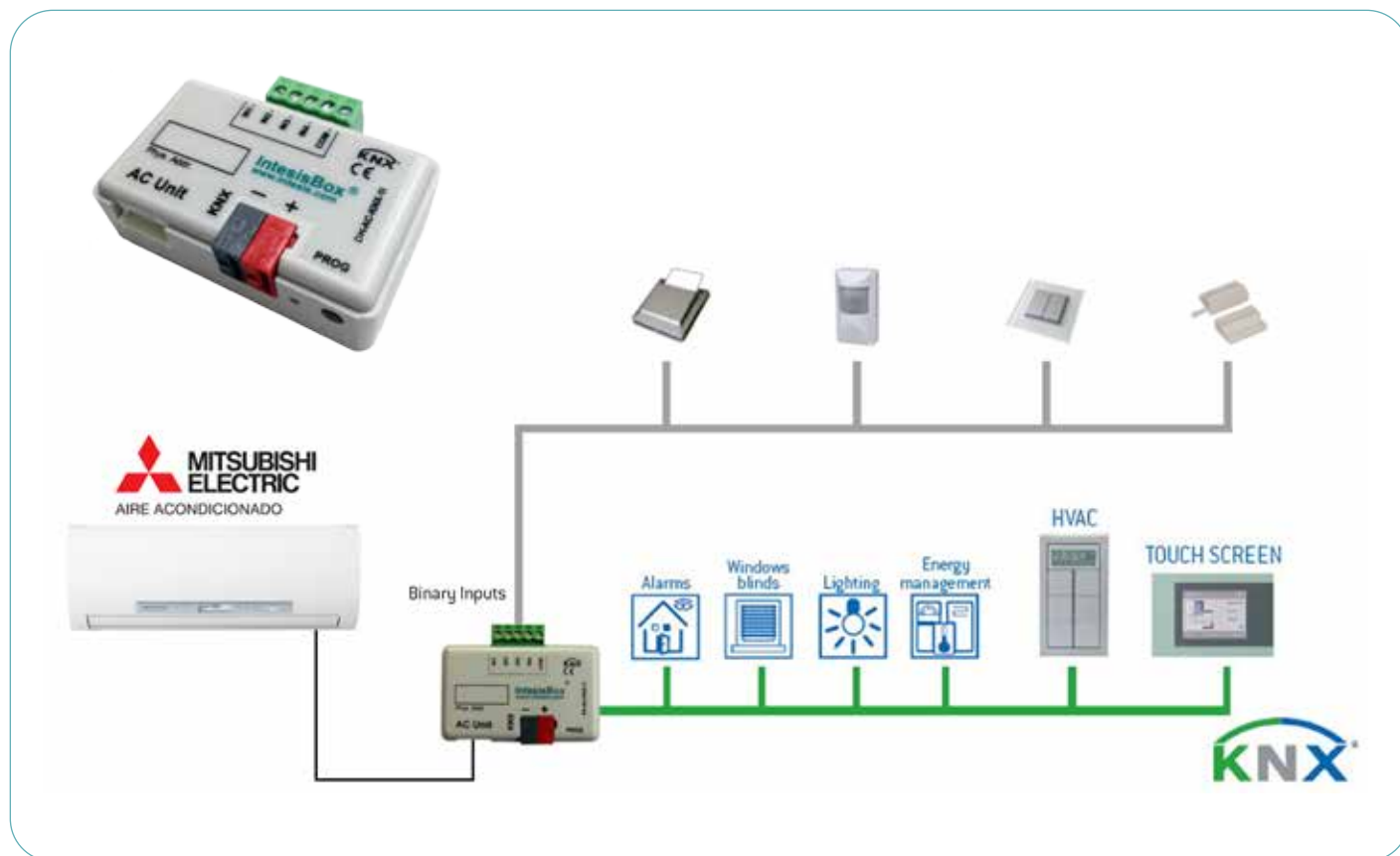
Specifications
- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX bus and to the AC indoor unit
- 4 binary inputs for potential-free contacts
- Allows use of KNX temperature sensor
- No external power supply required
- Small size (WxHxD): 59 x 45 x 21 mm.

Main features
- Easy installation inside the air conditioning indoor unit. Cable to connect to CN105 or CN92 connector supplied.
- Great integration flexibility. Configured directly from the ETS.
- Special communication objects for increasing comfort and energy savings: Open window, Working hours counter, Save /execute scenes, Enable/Disable device, Enable/disable remote controller,...
- Ambient temperature functionality. Useful when an external ambient temperature reference is required (KNX sensor or thermostat) or when the heating and AC unit need to be controlled from the same KNX thermostat.
- Simultaneous control from KNX and the Air Conditioner IR handset.

Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_ME-AC-KNX-1i_datasheet_eng.pdf
Compatibility list: http://www.intesis.com/pdf/IntesisBox_ME-AC-xxx-1_AC_Compatibility.pdf

ME-AC-KNX-15 / ME-AC-KNX-100

IntesisBox® ME-AC-KNX-15 / 100 gateways have been specially designed, in collaboration with Mitsubishi Electric, to allow monitoring and bidirectional control of all the parameters and functionality of Mitsubishi Electric air conditioners using G-50A, GB-50A or AG-150A controllers from KNX installations.

AG-150A   G-50A   GB-50A   GB-50ADA

IntesisBox®
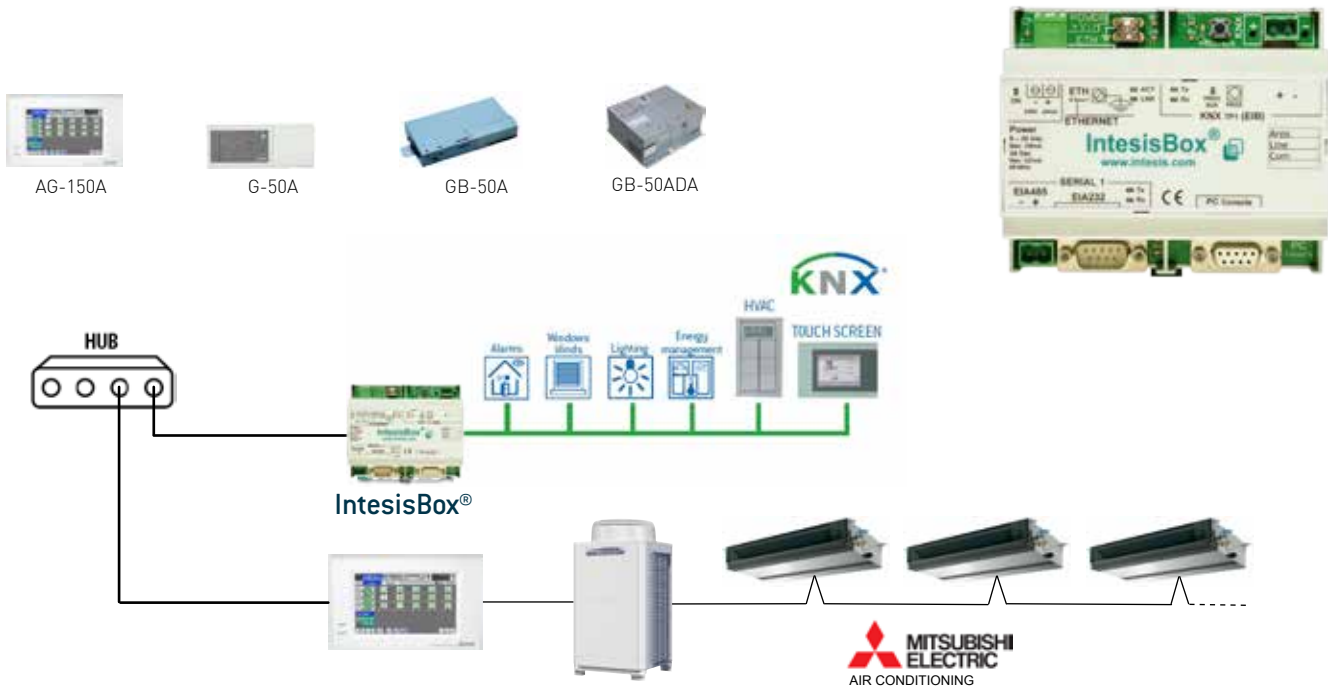
Compatible with all Mitsubishi Electric air conditioning units connected to centralized controls. The AG-150A must have the FGWEBASIC function (Web basic package).

Specifications

- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX bus
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 6 modules enclosure

Models available

- ME-AC-KNX-15 (Maximum 15 group of indoor units and 1 G-50A / GB50A / AG-150A / GB-50ADA centralized control)
- ME-AC-KNX-100 (Maximum 100 group of indoor units and 2 G-50A / GB-50A / AG-150A / GB-50ADA centralized controls)
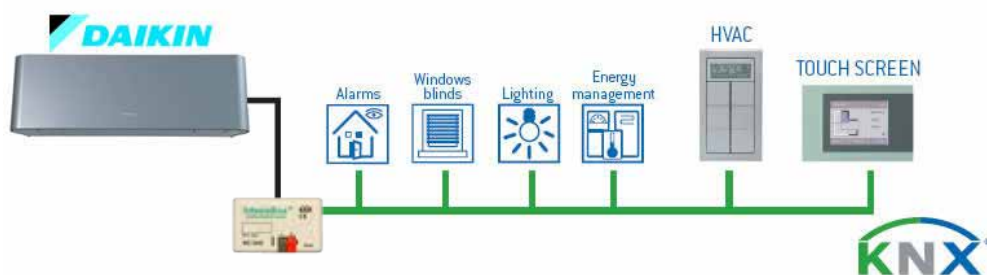
Main features

- Communication trough Ethernet to centralized controls G-50A / GB-50A / AG-150A / GB-50ADA
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication objects can be accessed. Monitoring and control from basic parameters to a complete monitoring and control of the AC units is possible.
- Virtual temperature functionality. Useful when an external ambient temperature reference is required (KNX sensor or thermostat) or when the heating and AC unit need to be controlled from the same KNX thermostat.

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_KNX_ME_G50_datasheet_eng.pdf

Intesis

DK-AC-KNX-1

IntesisBox® DK-AC-KNX-1 allows monitoring and control, fully bi-directionally, all the operational parameters of DAIKIN air conditioners from KNX installations. Compatible with Domestic Series manufactured by DAIKIN.

Specifications

- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX bus and to the AC indoor unit
- No external power supply required
- Small size (WxHxD): 59 x 36 x 21 mm

Main features

- Easy installation inside the AC indoor unit. Cable to connect to S21 connector supplied.
- Great integration flexibility. Configured directly from the ETS.
- Special communication objects for increasing comfort and energy savings: Open window, Working hours counter, Save /execute scenes, Enable/Disable device, Enable/disable remote controller,...
- Virtual temperature functionality. Useful when an external ambient temperature reference is required (KNX sensor or thermostat) or when the heating and AC unit need to be controlled from the same KNX thermostat.
- Simultaneous control from KNX and the Air Conditioner IR handset.

Info

Datasheet : http://www.intesis.com/pdf/IntesisBox_DK-AC-KNX-1_datasheet_eng.pdf

Compatibility list: http://www.intesis.com/pdf/IntesisBox_DK-AC-xxx-1_AC_Compatibility.pdf

DK-AC-KNX-1i

IntesisBox® DK-AC-KNX-1i allows monitoring and control, fully bi-directionally, of all the operational parameters of DAIKIN air conditioners from KNX installations. Compatible with Domestic Series manufactured by DAIKIN. 4 free-use binary inputs.
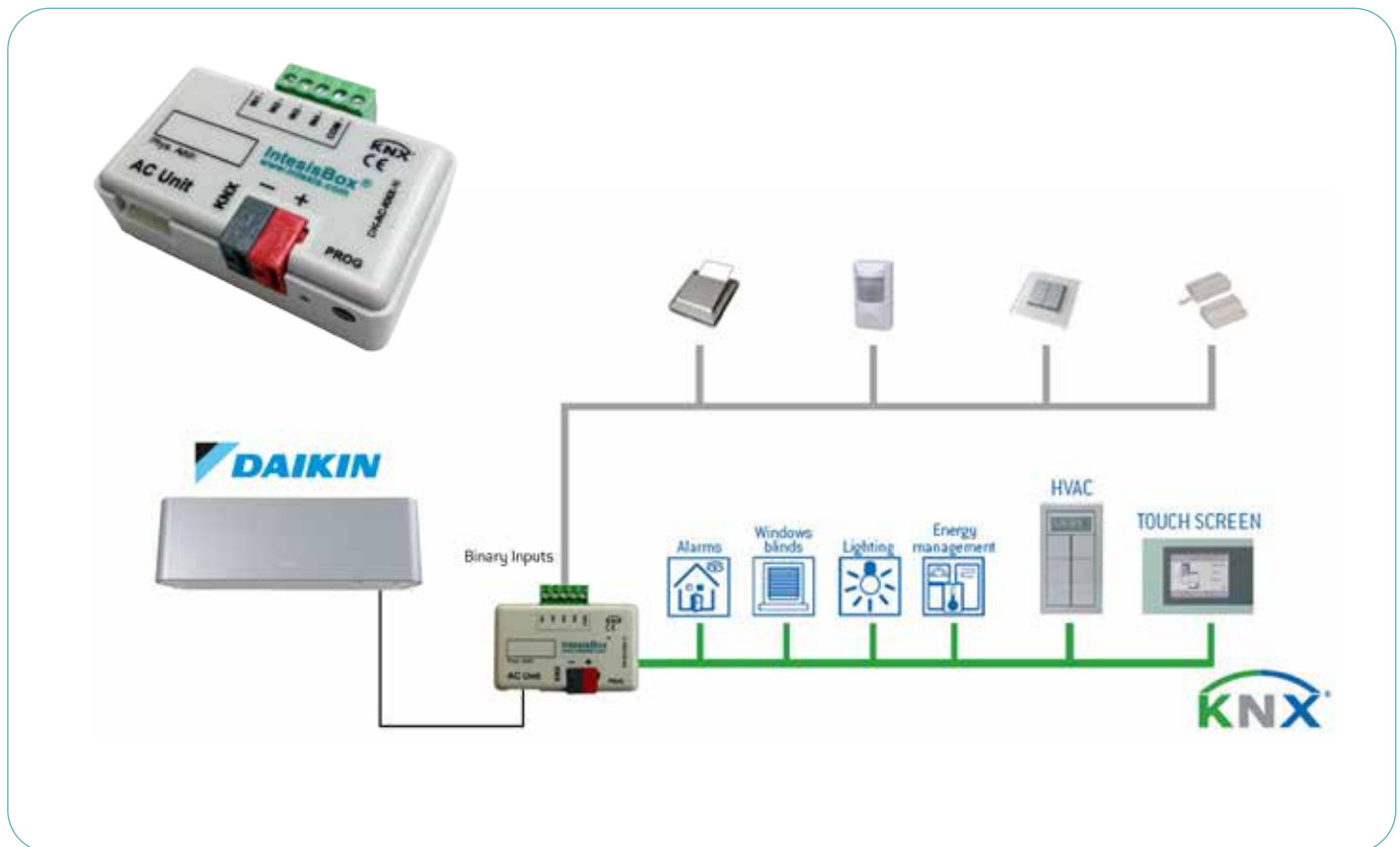
Specifications
- Bidirectional: Monitoring and Control
- Configuration from ETS
- 4 binary inputs for potential-free contacts
- Direct connection to KNX bus and to the AC indoor unit
- Allows use of a KNX temperature sensor
- No external power supply required
- Small size (WxHxD): 59 x 45 x 21 mm

Main features
- Easy installation inside the air conditioning indoor unit. Cable to connect to S21 connector supplied.
- Great integration flexibility. Configured directly from the ETS.
- Special communication objects for increasing comfort and energy savings: Open window, Working hours counter, Save /execute scenes, Enable/Disable device, Enable/disable remote controller,...
- Virtual temperature functionality. Useful when an external ambient temperature reference is required (KNX sensor or thermostat) or when the heating and AC unit need to be controlled from the same KNX thermostat.
- Simultaneous control from KNX and the Air Conditioner IR handset.

Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_DK-AC-KNX-1i_datasheet_eng.pdf
Compatibility list: http://www.intesis.com/pdf/IntesisBox_DK-AC-xxx-1_AC_Compatibility.pdf

Intesis

DK-RC-KNX-1

IntesisBox® DK-RC-KNX-1 gateway allows monitoring and bidirectional control of all the parameters and functionality of DAIKIN air conditioners from KNX installations. Compatible with SKY Air & VRV Series manufactured by DAIKIN.

Specifications
- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX bus and to the AC indoor unit
- Connection type: 2 wires without polarity.
- Total maximum distance: 500 m.
- No external power supply required
- Small size (WxHxD): 71 x 71 x 27 mm

Main features
- Easy installation as Slave or Master in parallel with Daikin remote controllers.
- Great integration flexibility. Configured directly from the ETS.
- Special communication objects for increasing comfort and energy savings: Open window, Working hours counter, Save /execute scenes, Enable/Disable device, Enable/disable remote controller,...
- Virtual temperature functionality. Useful when an external ambient temperature reference is required (KNX sensor or thermostat) or when the heating and AC unit need to be controlled from the same KNX thermostat.
- Simultaneous control from KNX and the Air Conditioner Remote Controller.

Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_DK-RC-KNX-1_datasheet_eng.pdf

Compatibility list: http://www.intesis.com/pdf/IntesisBox_DK-RC-xxx-1_AC_Compatibility.pdf

MH-RC-KNX-1i

IntesisBox® MH-RC-KNX-1i gateway allows monitoring and bidirectional control of all the parameters and functionality of Mitsubishi Heavy Industries air conditioners from KNX installations. Compatible with FD, KX6 and KXR6 Series manufactured by Mitsubishi Heavy Industries. 4 free-use binary inputs.
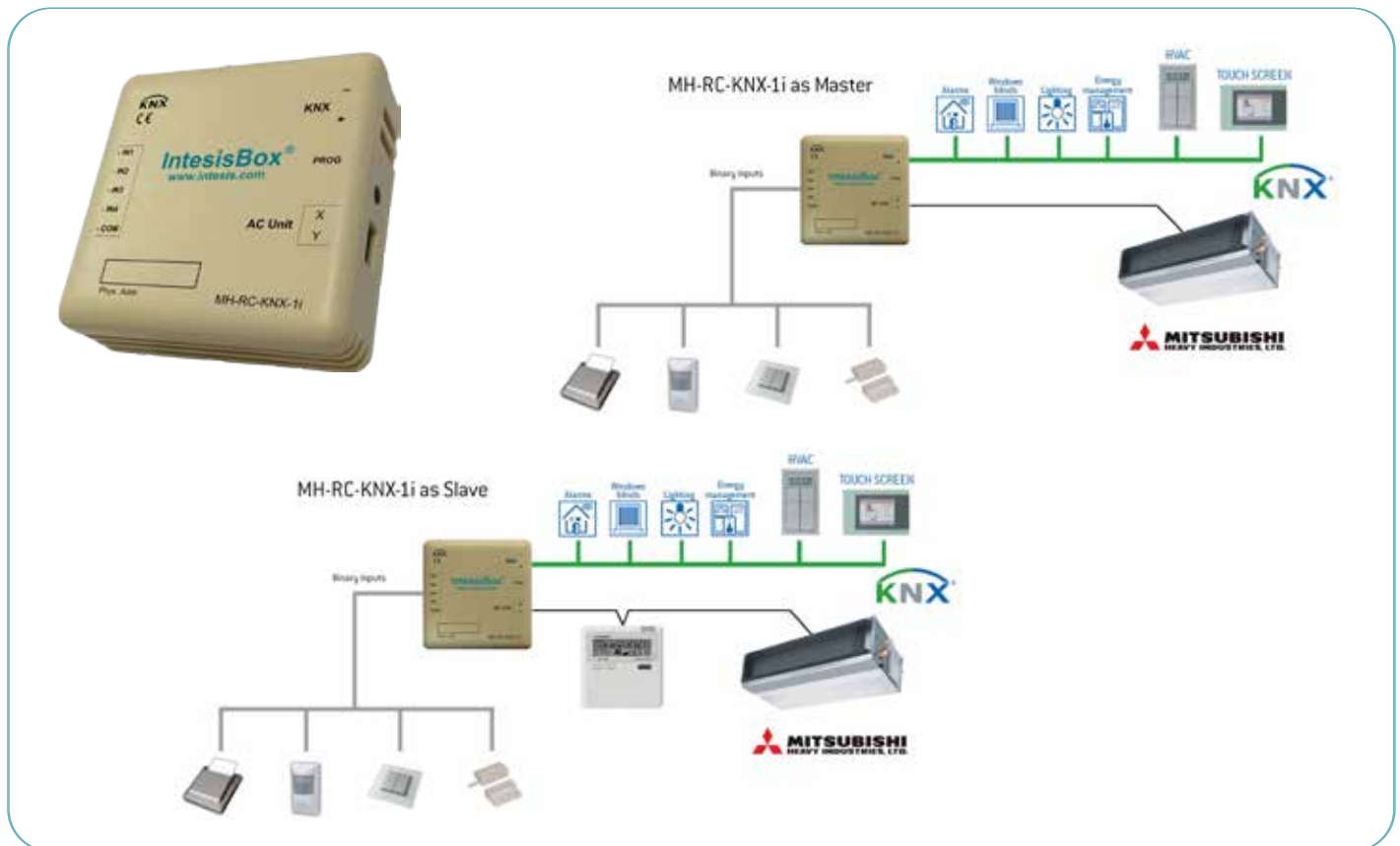
Specifications

- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX bus and to the AC indoor unit
- 4 binary inputs for potential-free contacts
- Connection type: 2 wires without polarity.
- Total maximum distance: 600 m.
- No external power supply required
- Small size (WxHxD): 71 x 71 x 27 mm

Main features

- Easy installation as Slave or Master in parallel with Mitsubishi Heavy Industries remote controllers.
- Great integration flexibility. Configured directly from the ETS.
- Special communication objects for increasing comfort and energy savings: Open window, Working hours counter, Save /execute scenes, Enable/Disable device, Enable/disable remote controller,...
- Virtual temperature functionality. Useful when an external ambient temperature reference is required (KNX sensor or thermostat) or when the heating and AC unit need to be controlled from the same KNX thermostat.
- Simultaneous control from KNX and the Mitsubishi Heavy Industries air condtioner Remote Controller.

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_MH-RC-KNX-1i_datasheet_eng.pdf
Compatibility list: http://www.intesis.com/pdf/IntesisBox_MH-RC-xxx-1_AC_Compatibility.pdf

Intesis

MH-AC-KNX-48 / MH-AC-KNX-128

IntesisBox® MH-AC-KNX-48 / 128 gateways have been specially designed, in collaboration with Mitsubishi Heavy Industries, to allow Monitoring and bidirectional control of all the parameters and functionality of Mitsubishi Heavy Industries air conditioning, VRF Superlink I&II systems from KNX installations.

Specifications
- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX bus
- Direct connection to VRF bus
- Independent management of communications
- Power supply: 230 VAC
- Size (WxHxD): 215 x 170 x 65 mm

Models available
- MH-AC-KNX-48: supports up to 48 indoor units
- MH-AC-KNX-128: supports up to 128 indoor units

Main features
- Compatible with all Mitsubishi Heavy Industries units connected to SuperLink Bus.
- Easy installation. Direct connection to SuperLink Bus.
- Great integration flexibility. Using the software LinkBoxEIB, a complete set of communication objects can be accessed.
- Advanced integration with air conditioner. Simultaneous control from KNX and the Mitsubishi Heavy Industries Remote controller.

Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_MH-AC-KNX-48-128_datasheet_eng.pdf
Compatiblity list: http://www.intesis.com/pdf/IntesisBox_MH-AC-xxx-1_AC_Compatibility.pdf

FJ-RC-KNX-1i

IntesisBox® FJ-RC-KNX-1i gateway allows Monitoring and bidirectional control of all the parameters and functionality of Fujitsu air conditioners from KNX installations. Compatible with RAC and VRF indoor units
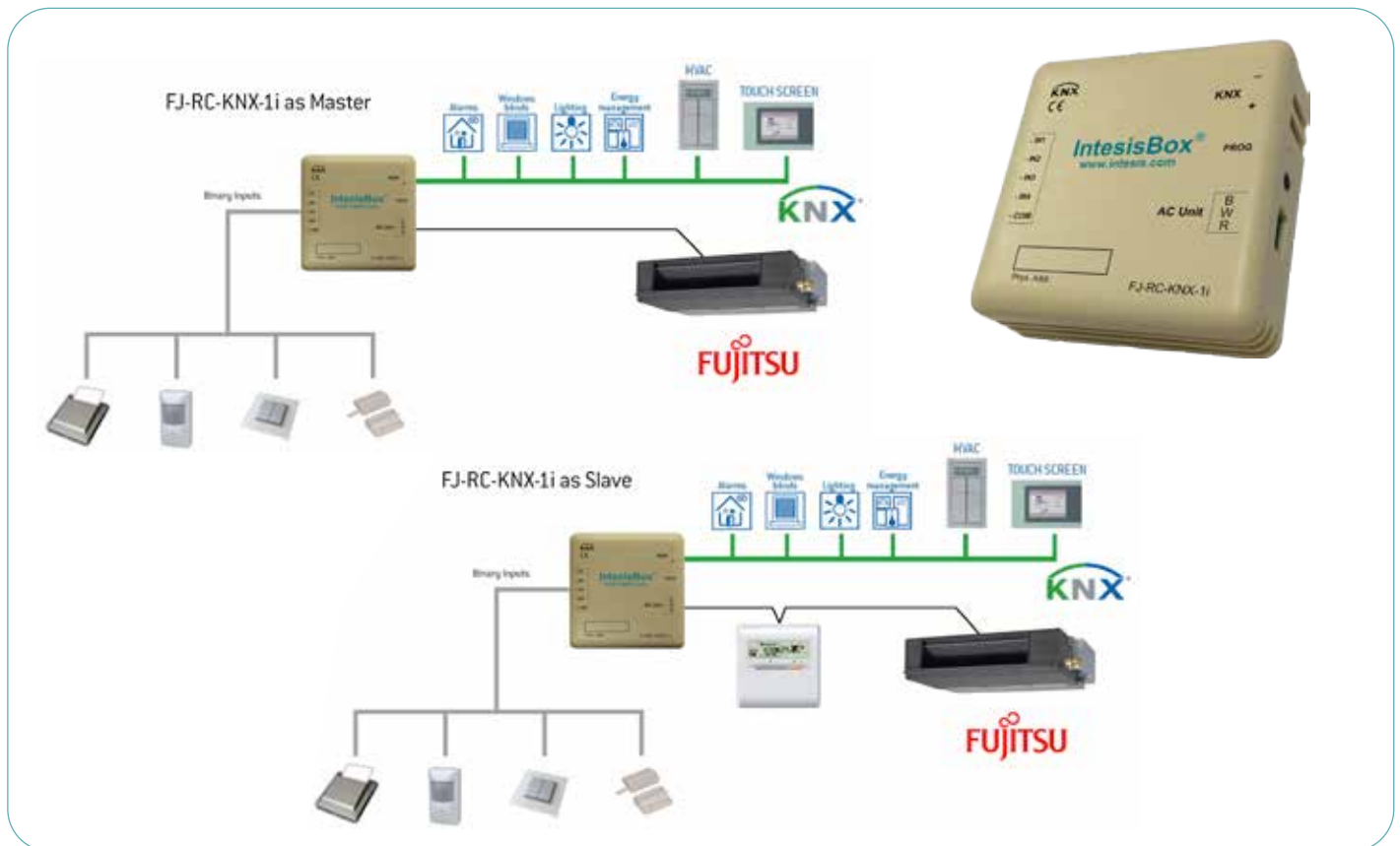
Specifications

- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX bus and to the AC indoor unit
- 4 binary inputs for potential-free contacts
- Connection type: 2 wires without polarity.
- Total maximum distance: 500 m.
- No external power supply required
- Small size (WxHxD): 71 x 71 x 27 mm

Main features

- Easy installation as Slave or Master in parallel with Fujitsu remote controllers.
- Great integration flexibility. Configured directly from the ETS.
- Special communication objects for increasing comfort and energy savings: Open window, Working hours counter, Save /execute scenes, Enable/Disable device, Enable/disable remote controller,...
- Simultaneous control from KNX and the Air Conditioner Remote Controller.

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_FJ-RC-KNX-1i_datasheet_eng.pdf
Compatibility list: http://www.intesis.com/pdf/IntesisBox_FJ-RC-xxx-1_AC_Compatibility.pdf

Intesis

HI-AW-KNX-1

IntesisBox® HI-AW-KNX-1 gateway allows monitoring and bidirectional control of all the parameters and functionality of HITACHI Yutaki air to water units from KNX installations. Compatible with Yutaki and Yutaki S80 units.
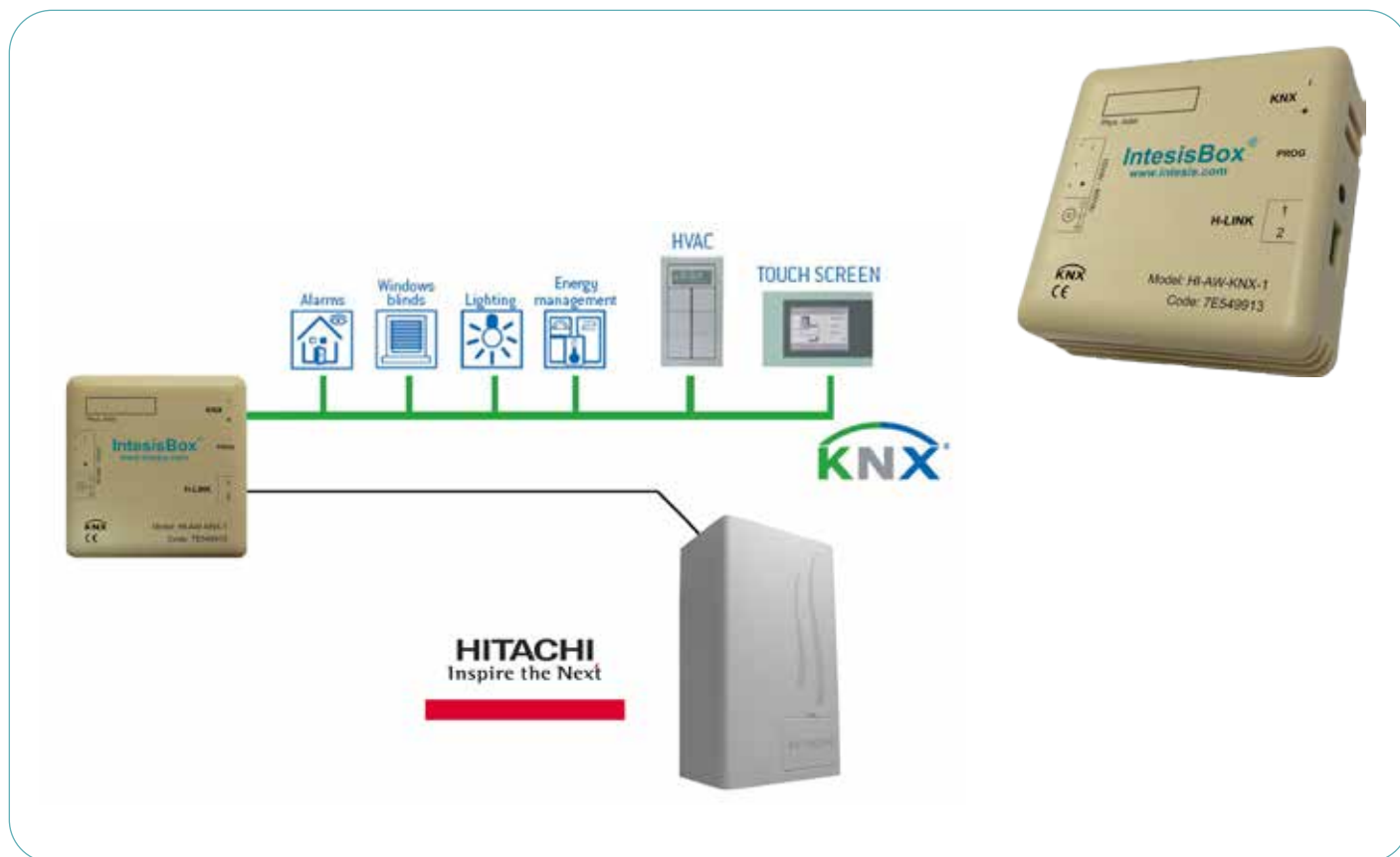
Specifications

- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX bus and to the H-Link bus
- Connection type: 2 wires without polarity
- Total maximum distance: 1000 m
- Power Supply: 10 to 40Vdc, 100mA
- Small size (WxHxD): 71 x 71 x 27 mm
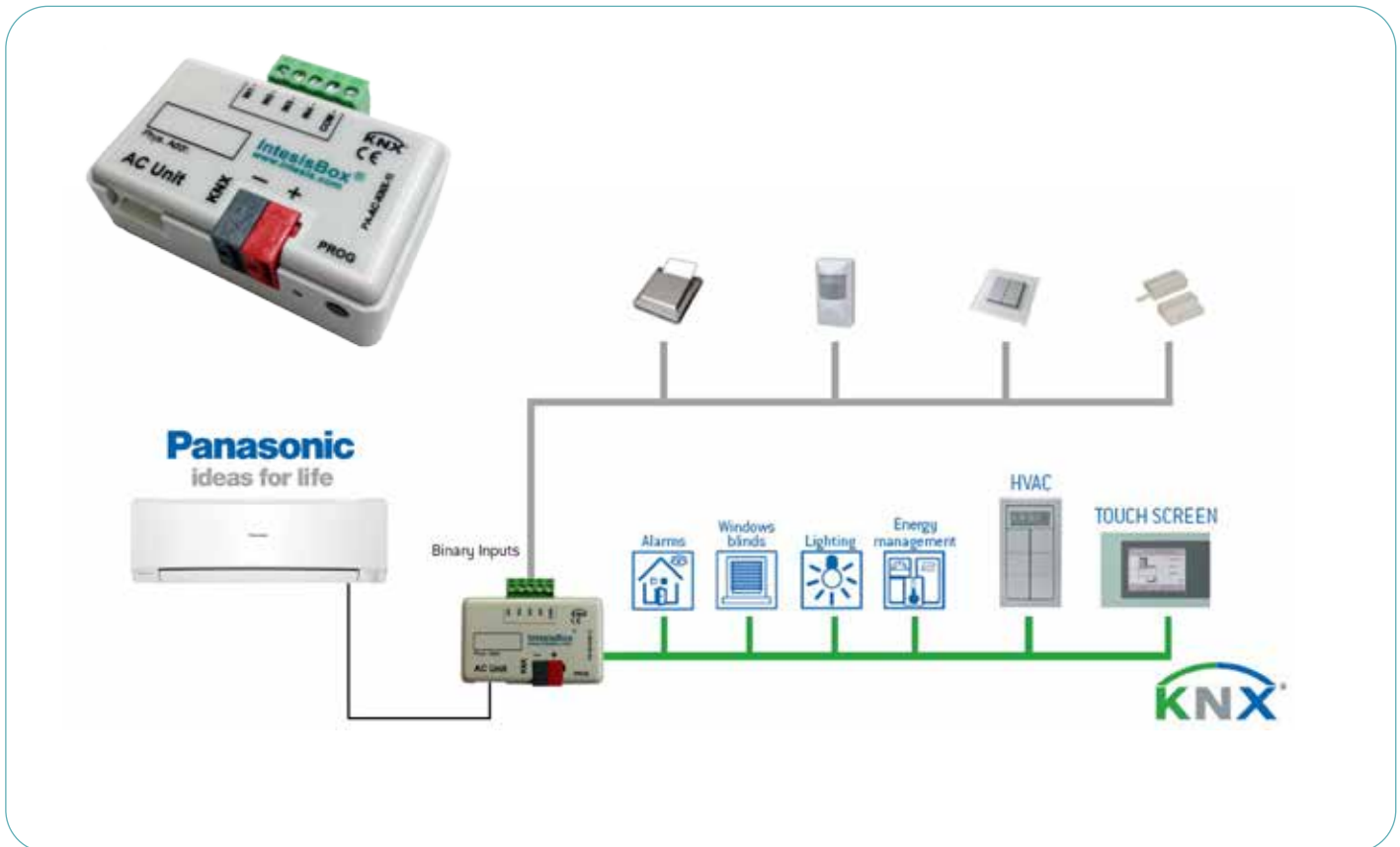
Main features

- Easy installation. Direct connection to H-Link bus.
- Great integration flexibility. Configured directly from the ETS.
- Special communication objects for increasing comfort and energy savings.
- Ambient temperature functionality. Useful when an external ambient temperature reference is required (KNX sensor or thermostat) or when the heating and AC unit need to be controlled from the same KNX thermostat.
- Simultaneous control from KNX and the Hitachi remote controller.

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_HI-AW-KNX-1_datasheet_eng.pdf

PA-AC-KNX-1i

IntesisBox® PA-AC-KNX-1i allows monitoring and control, fully bi-directionally, all the operational parameters of PANASONIC air conditioners from KNX installations. Compatible with Etherea MKE and NKE Series manufactured by PANASONIC. 4 free-use binary inputs.

Specifications
- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX bus and to the AC indoor unit
- 4 binary inputs for potential-free contacts
- Use of KNX temperature sensor possible
- No external power supply required
- Small size (WxHxD): 59 x 45 x 21 mm

Main features
- Easy installation inside the AC indoor unit. Cable to connect to CN-CNT connector supplied.
- Great integration flexibility. Configured directly from the ETS.
- Special communication objects for increasing comfort and energy savings: Open window, Working hours counter, Save /execute scenes, Enable/Disable device, Enable/disable remote controller,...
- Virtual temperature functionality. Useful when an external ambient temperature reference is required (KNX sensor or thermostat) or when the heating and AC unit need to be controlled from the same KNX thermostat.
- Simultaneous control from KNX and the IR Air Conditioner handset.

Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_PA-AC-KNX-1i_datasheet_eng.pdf

Compatibility list: http://www.intesis.com/pdf/IntesisBox_PA-AC-xxx-1_AC_Compatibility.pdf

Intesis

PA-RC-KNX-1i

IntesisBox® PA-RC-KNX-1i gateway allows Monitoring and bidirectional control of all the parameters and functionality of PANASONIC air conditioners from KNX installations. Compatible with FS and FSM Series manufactured by PANASONIC. 4 free-use binary inputs.
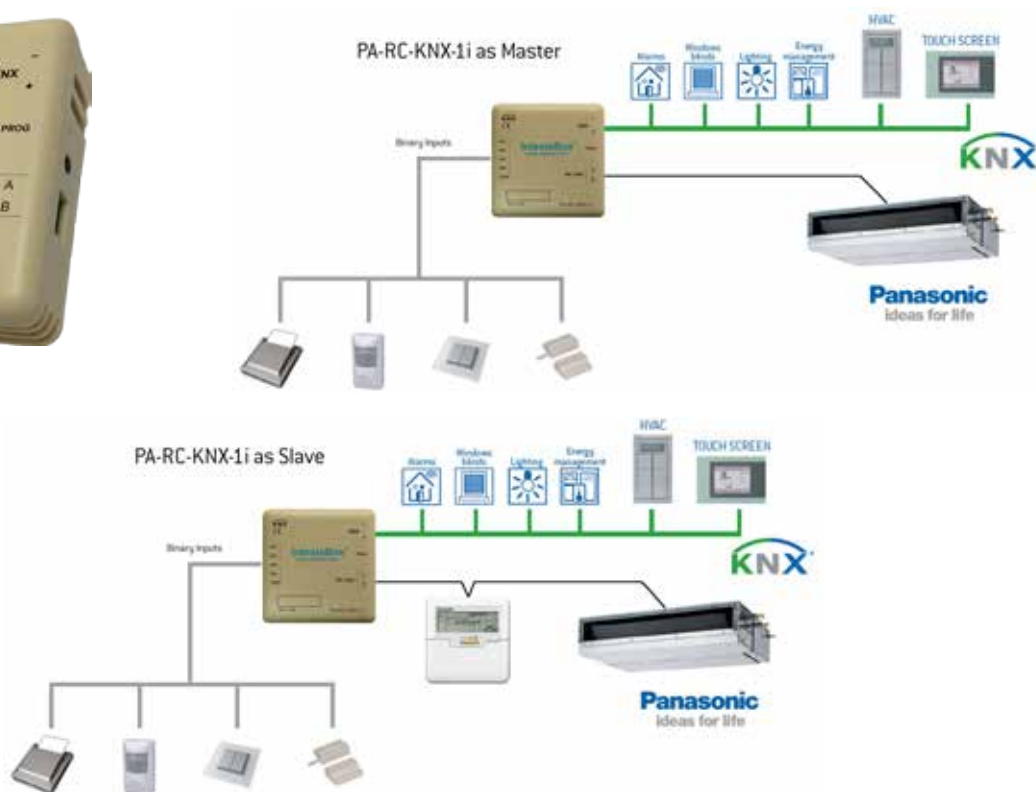
Specifications
- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX bus and to the AC indoor unit
- 4 binary inputs for potential-free contacts
- Connection type: 2 wires without polarity.
- Total maximum distance: 200 m.
- No external power supply required
- Small size (WxHxD): 71 x 71 x 27 mm

Main features
- Easy installation as Slave or Master in parallel with Panasonic remote controllers.
- Great integration flexibility. Configured directly from the ETS.
- Special communication objects for increasing comfort and energy savings: Open window, Working hours counter, Save /execute scenes, Enable/Disable device, Enable/disable remote controller,...
- Virtual temperature functionality. Useful when an external ambient temperature reference is required (KNX sensor or thermostat) or when the heating and AC unit need to be controlled from the same KNX thermostat.
- Simultaneous control from KNX and the Air Conditioner Remote Controller.
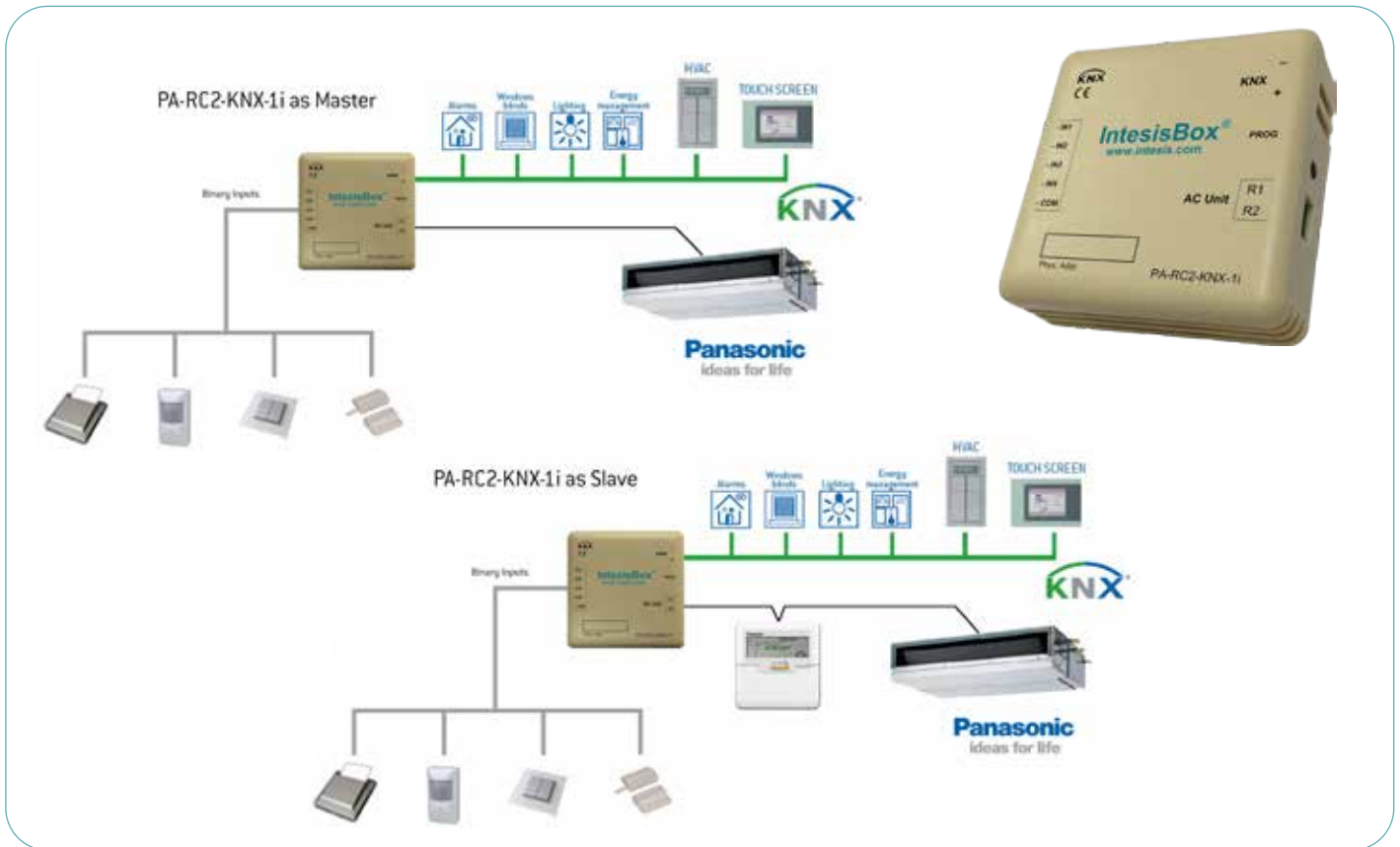
Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_PA-RC-KNX-1i_datasheet_eng.pdf

Compatibility list: http://www.intesis.com/pdf/IntesisBox_PA-RC-xxx-1_AC_Compatibility.pdf

PA-RC2-KNX-1i

IntesisBox® PA-RC2-KNX-1i gateway allows Monitoring and bidirectional control of all the parameters and functionality of PANASONIC air conditioners from KNX installations. Compatible with FS and FSM Series manufactured by PANASONIC. 4 free-use binary inputs.

Specifications

- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX bus and to the AC indoor unit
- 4 binary inputs for potential-free contacts
- Connection type: 2 wires without polarity.
- Total maximum distance: 500 m.
- No external power supply required
- Small size (WxHxD): 71 x 71 x 27 mm

Main features

- Easy installation as Slave or Master in parallel with Panasonic remote controllers.
- Great integration flexibility. Configured directly from the ETS.
- Special communication objects for increasing comfort and energy savings: Open window, Working hours counter, Save /execute scenes, Enable/Disable device, Enable/disable remote controller,...
- Ambient temperature functionality. Useful when an external ambient temperature reference is required (KNX sensor or thermostat) or when the heating and AC unit need to be controlled from the same KNX thermostat.
- Simultaneous control from KNX and the Air Conditioner Remote Controller.

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_PA-RC2-KNX-1i_datasheet_eng.pdf
Compatibility: http://intesis.com/pdf/IntesisBox_PA-RC2-xxx-1_Panasonic_Compatibility.pdf

Intesis

PA-AC-KNX-64/128

IntesisBox® PA-AC-KNX-64 / 128 gateways have been specially designed, in collaboration with Panasonic, to allow monitoring and bidirectional control of all the parameters and functionality of Panasonic air conditioning ECOi and PACi indoor units from KNX installations.
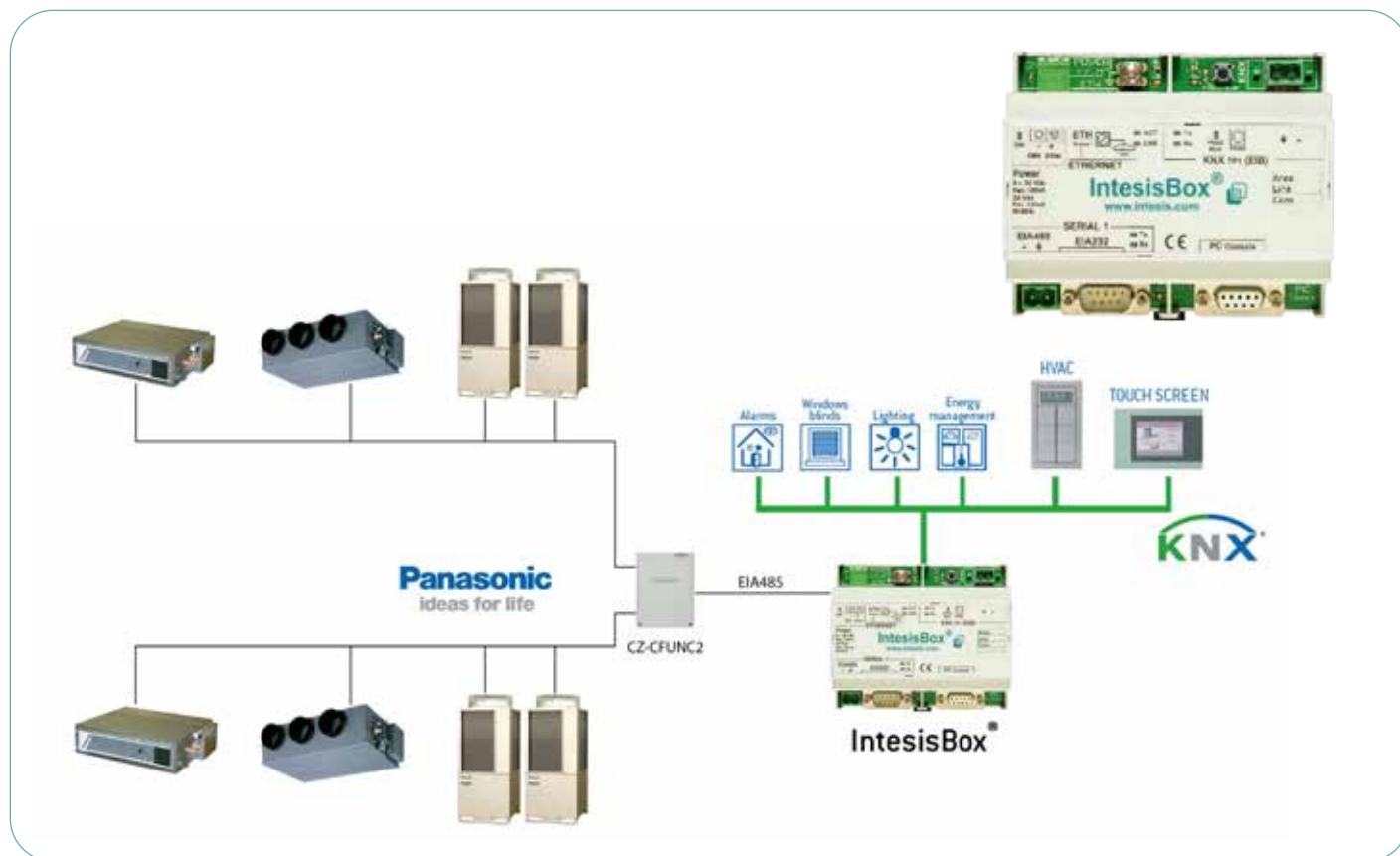
Specifications

- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX bus
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 6 modules enclosure

Main features

- Easy installation. Connection of PANASONIC communication interface CZ-CFUN2 to IntesisBox® through EIA485.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication objects can be accessed.
- Simultaneous control from KNX and the Panasonic remote controller.

Models available

- PA-AC-KNX-64 (64 indoor units and 30 outdoor units)
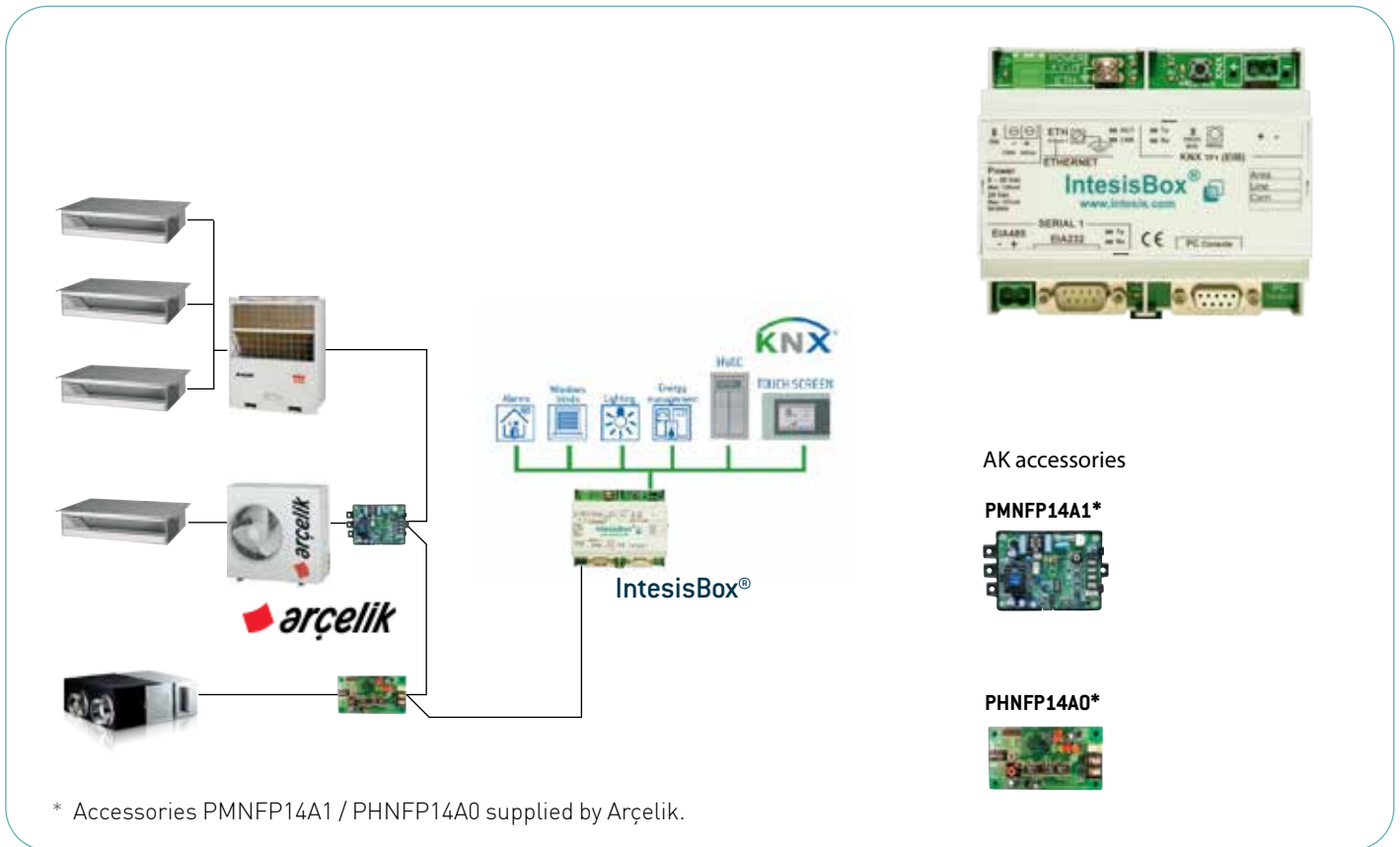- PA-AC-KNX-128 (128 indoor units and 30 outdoor units)

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_PA-AC-KNX-64-128_datasheet_eng.pdf

AK-AC-KNX-4 / AK-AC-KNX-8
AK-AC-KNX-16 / AK-AC-KNX-64

IntesisBox® AK-AC-KNX-4 / 8 / 16 / 64 gateways have been specially designed, in collaboration with Arçelik, to allow monitoring and bidirectional control of all the parameters and functionality of Arçelik air conditioners from KNX installations.

AK accessories

PMNFP14A1*

PHNFP14A0*

IntesisBox®

* Accessories PMNFP14A1 / PHNFP14A0 supplied by Arçelik.

Specifications

- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX bus
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 6 modules enclosure

Models available

- AK-AC-KNX-4 (Maximum 4 indoor units)
- AK-AC-KNX-8 (Maximum 8 indoor units)
- AK-AC-KNX-16 (Maximum 16 indoor units)
- AK-AC-KNX-64 (Maximum 64 indoor units)

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_AK-AC-KNX-16-64_datasheet_eng.pdf
Compatibility list: http://www.intesis.com/pdf/IntesisBox_AK-AC-xxx-MIU_AC_Compatibility.pdf

Main features

- Easy installation. Direct connection to all outdoor units (communication interface PMNFP14A1, when needed) and Heat recovering units (communication interface PHNFP14A0, when needed) through the RS485 Bus.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication objects can be accessed.
- Simultaneous control from KNX and the Arçelik remote controller.

Intesis

LG-AC-KNX-4 / LG-AC-KNX-8
LG-AC-KNX-16 / LG-AC-KNX-64

IntesisBox® LG-AC-KNX-4 / 8 / 16 / 64 gateways have been specially designed, in collaboration with LG, to allow monitoring and bidirectional control of all the parameters and functionality of LG air conditioners from KNX installations.

IntesisBox®
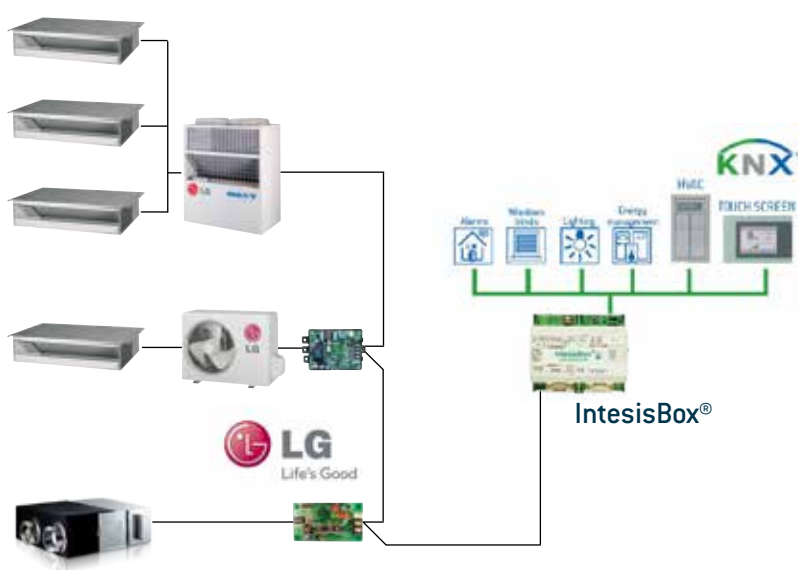
LG accessories

PMNFP14A1*

PHNFP14A0*

* Accessories PMNFP14A1 / PHNFP14A0 supplied by LG.

Specifications
- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX bus
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 6 modules enclosure

Models available
- LG-AC-KNX-4 (Maximum 4 indoor units)
- LG-AC-KNX-8 (Maximum 8 indoor units)
- LG-AC-KNX-16 (Maximum 16 indoor units)
- LG-AC-KNX-64 (Maximum 64 indoor units)

Main features
- Easy installation. Direct connection to all outdoor units (communication interface PMNFP14A1, when needed) and Heat recovering units (communication interface PHNFP14A0, when needed) through the RS485 Bus.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication objects can be accessed.
- Simultaneous control from KNX and the LG remote controller.

Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_LG-AC-KNX-16-64_datasheet_eng.pdf
Compatibility list: http://www.intesis.com/pdf/IntesisBox_LG-AC-xxx-MIU_AC_Compatibility.pdf
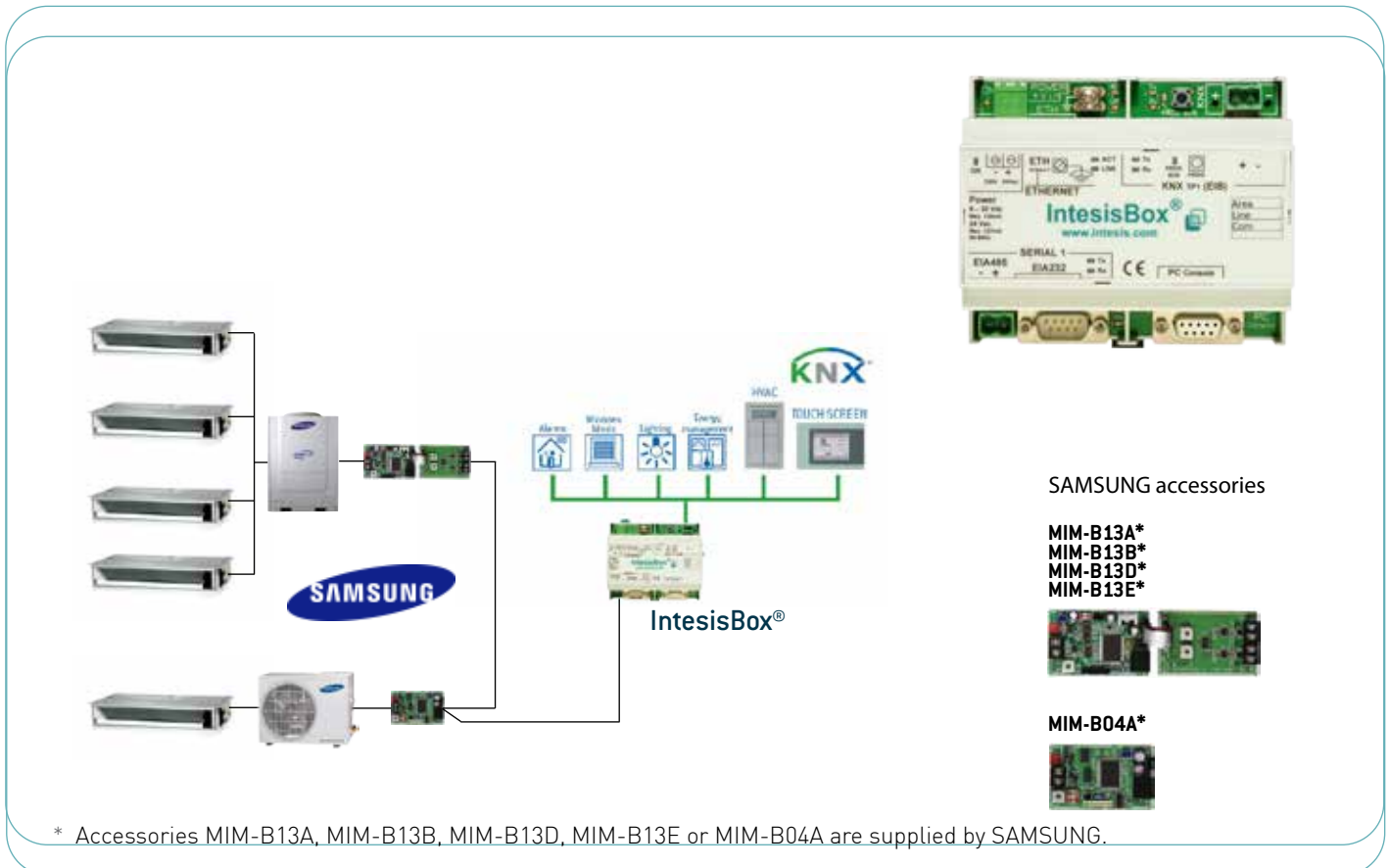
KNX

SM-AC-KNX-4 / SM-AC-KNX-8 / SM-AC-KNX-16
SM-AC-KNX-64 / SM-AC-KNX-128

IntesisBox® SM-AC-KNX-4 / 8 / 16 / 64 / 128 gateways have been specially designed, in collaboration with SAMSUNG, to allow monitoring and bidirectional control of all the parameters and functionality of SAMSUNG air conditioners from KNX installations.

IntesisBox®

SAMSUNG accessories

MIM-B13A*
MIM-B13B*
MIM-B13D*
MIM-B13E*

MIM-B04A*

* Accessories MIM-B13A, MIM-B13B, MIM-B13D, MIM-B13E or MIM-B04A are supplied by SAMSUNG.

Specifications
- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX bus
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 6 modules enclosure

Models available
- SM-AC-KNX-4 (4 indoor units and 16 communication interfaces*)
- SM-AC-KNX-8 (8 indoor units and 16 communication interfaces*)
- SM-AC-KNX-16 (16 indoor units and communication interfaces*)
- SM-AC-KNX-64 (64 indoor units and 16 communication interfaces*)
- SM-AC-KNX-128 (128 indoor units and 16 communication interfaces*).
- * MIM-B13A, MIM-B13B, MIM-B13D, MIM-B13E or MIM-B04A accessories supplied by Samsung

Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_SM-AC-KNX-16-64-128_datasheet_eng.pdf
Compatibility list: http://www.intesis.com/pdf/IntesisBox_SM-AC-xxx-MIU_AC_Compatibility.pdf

Main features
- Easy installation. Connection of external unit to a SAMSUNG communication interfaces MIM-B13A, MIM-B13B, MIM-B13D MIM-B13E or MIM-B04A. Connection to IntesisBox® through RS485.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication objects can be accessed.
- Simultaneous control from KNX and the Samsung remote controller.

IBOX-KNX-AIRZONE

IntesisBox® IBOX-KNX-AIRZONE gateway has been specially designed, in collaboration with AIRZONE, to allow monitoring and bidirectional control of all the parameters and functionality of AIRZONE zoning systems from KNX installations.

AIRZONE INNOBUS SYSTEM

Airzone InnoBUS SYSTEM is an integral Climate Control system by zones that manages both air conditioning systems as well as heating systems. It controls equipment such as air heat pump or also chillers and fan coils, so it can work in cold mode or in heat mode; also systems of heat radiation can be controlled, as for example radiation floors or wall heaters.
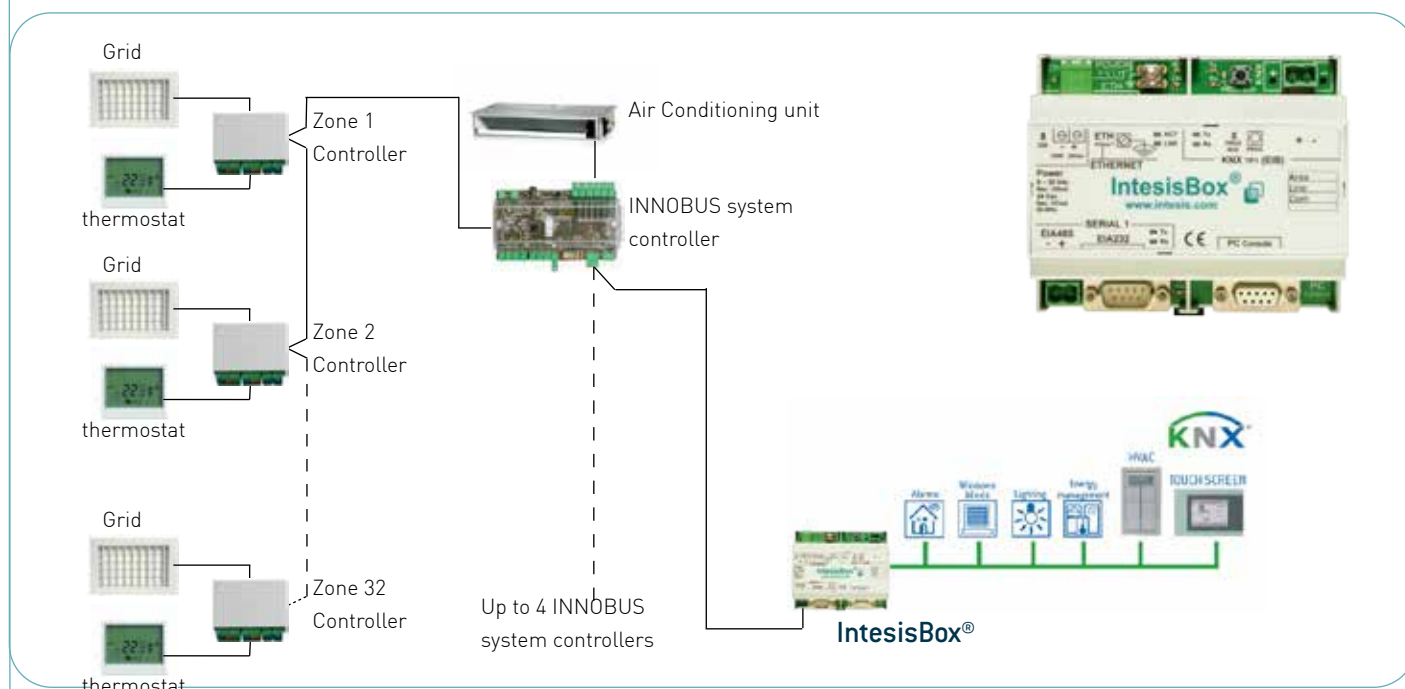
* INNOBUS system is commercialized by AIRZONE.
Maximum 4 INNOBUS System Controllers each of them with a maximum of 32 Zone controllers

Specifications

- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX bus
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 6 modules enclosure

Main features

- Easy installation. Direct connection to all the INNOBUS system controllers (up to 4) through RS485 Bus.
- Great integration flexibility. Using the supplied software LinkBoxEIB, a complete set of communication objects can be accessed.
- Simultaneous control from KNX and the Airzone thermostats.

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_KNX_Airzone_datasheet_eng.pdf

IBOX-KNX-LON

IntesisBox® IBOX-KNX-LON gateway has been specially designed to allow monitoring and bidirectional control of all the parameters and functionality of systems and equipment with LonWorks® connectivity from KNX installations.

LonWorks® Devices

HVAC
· Air conditioners
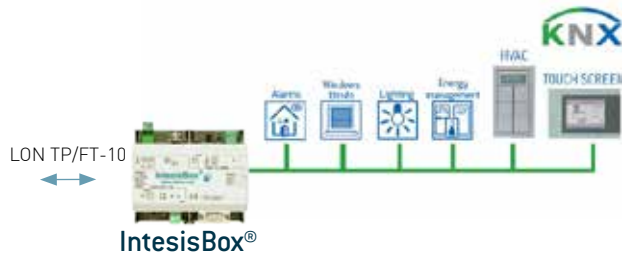· Coolers
· thermostats
· Fan-coil Controllers

Meters
· Electric meters
· Energy meters
· Tª and Hr Probes

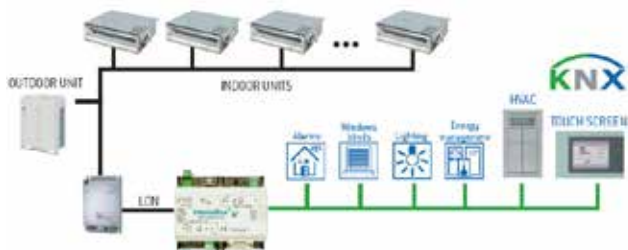LON TP/FT-10

Automation
· B.M.S.
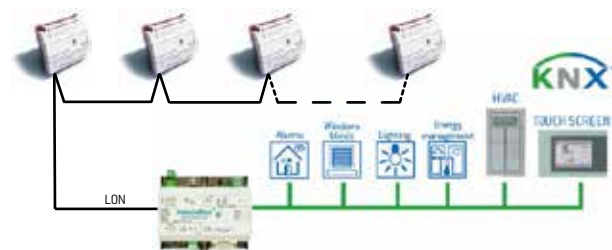· PLC
· HMI

and many others

IntesisBox®

Integration example:
VRV DAIKIN Air conditioners equiped with LON gateway.

Integration example:
LON Fan-coil controllers.

Specifications

• Bidirectional: Monitoring and Control

• Robust and reliable hardware

• Direct connection to KNX bus

• Independent management of communications

• Power supply: 9 to 24Vdc or 24Vac

• Standard DIN-Rail 6 modules enclosure

Models available

• IBOX-KNX-LON-100 (Maximum 100 control points and 128 LON devices)

• IBOX-KNX-LON-A (Maximum 500 control points and 128 LON devices)

• IBOX-KNX-LON-B (Maximum 4000 control points and 128 LON devices)

Main features

• Easy installation. Direct connection to LONWorks devices through TP/FT-10 (2 wire) connection

• Great integration flexibility. Thanks to LinkBoxEIB supplied software. No bindings needed thanks to continuous polling readout. Access trough physical address (Neuron-Id) or subnet node (commissioned devices) possible. LON expertise or commission tool not required.

• Advanced integration for centralized AC systems equipped with Lonworks interfaces, including meters, PLC's coolers, etc.

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_KNX_LON_datasheet_eng.pdf

Intesis

IBOX-KNX-MBRTU / IBOX-KNX-MBTCP

IntesisBox® IBOX-KNX-MBRTU / MBTCP gateways have been specially designed to allow monitoring and bidirectional control of all the parameters and functionality of systems and equipment with ModBus connectivity from KNX installations.

ModBus Devices

HVAC
· Air conditioners
· Coolers
· thermostats
· Fan-coil Controllers

Meters
· Electric meters
· Energy meters
· Tª and Hr Probes

Automation
· B.M.S.
· PLC
· HMI

and many others

ModBus RTU
ModBus TCP

IntesisBox®

Integration example:
ModBus RTU chillers

Integration example:
ModBus RTU electrical meters.

ModBus

ModBus

Specifications

• Bidirectional: Monitoring and Control

• Robust and reliable hardware

• Direct connection to KNX bus

• Independent management of communications

• Power supply: 9 to 24Vdc or 24Vac

• Standard DIN-Rail 6 modules enclosure

Models available

• IBOX-KNX-MBRTU-100 (100 control points and 254 ModBus RTU slave devices)

• IBOX-KNX-MBRTU-A / B (500 / 3000 control points and 254 ModBus RTU slave devices)

• IBOX-KNX-MBTCP-100 (100 control points and 5 ModBus TCP slave devices)

• IBOX-KNX-MBTCP-A / B (500 / 3000 control points and 5 ModBus TCP slave devices)

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_KNX_Modbus_RTU_master_datasheet_eng.pdf

Datasheet: http://www.intesis.com/pdf/IntesisBox_KNX_Modbus_TCP_master_datasheet_eng.pdf

Main features

• Easy installation. Direct connection to ModBus devices through RS485 (2 wire) or RS232 connection (IBOX-KNX-MBRTU) and Ethernet (IBOX-KNX-MBTCP).

• Great integration flexibility. The IntesisBox® ModBus Master interface reads continuously by polling the configured ModBus slave devices. Read values kept in IntesisBox® memory to be used when needed by the KNX system.

• Advanced integration of AC systems with ModBus interfaces from KNX like Ciatesa, Hitecsa, Lennox, Carrier, etc. and meters, PLC's coolers, etc.

IBOX-KNX-BAC

IntesisBox® IBOX-KNX-BAC gateway has been specially designed to allow monitoring and bidirectional control of all the parameters and functionality of systems and equipment with BACnet/IP connectivity from KNX installations.

BACnet devices

HVAC
· Air conditioners
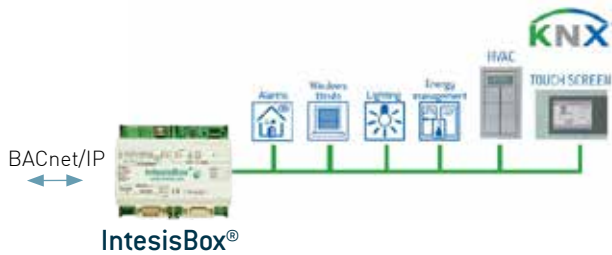· Coolers
· thermostats
· Fan-coil Controllers

Meters
· Electric meters
· Energy meters
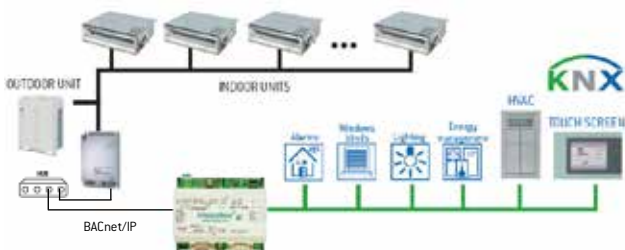· Tª and Hr Probes

Automation
· B.M.S.
· PLC
· HMI

and many others

BACnet/IP

IntesisBox®

Integration example:
VRV DAIKIN Air conditioners equiped with BACnet gateway.

BACnet/IP

Integration example:
BACnet/IP Controllers.

BACnet/IP

Specifications

- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX bus
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 6 modules enclosure

Models available

- IBOX-KNX-BAC-100 (Maximum 100 control points and 16 BACnet/IP devices)
- IBOX-KNX-BAC-A (Maximum 500 control points and 16 BACnet/IP devices)
- IBOX-KNX-BAC-B (Maximum 4000 control points and 16 BACnet/IP devices)

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_KNX_Bacnet_IP_Client_datasheet_eng.pdf

Main features

- Easy installation. Direct connection to the BACnet/IP network.
- Great integration flexibility. IntesisBox® IBOX-KNX-BAC is a BACnet/IP client that reads/writes points of other BACnet/IP devices. Read values kept in IntesisBox® memory to be used when needed by the KNX system.
- Advanced integration for centralized AC systems equipped with BACnet/IP interfaces, including meters, PLC's, HMI etc.

IBOX-KNX-DSC4020

IntesisBox® IBOX-KNX-DSC4020 has been specially designed to allow Monitoring and control of the DSC Maxsys PC4020 intrusion detection panel from KNX installations.
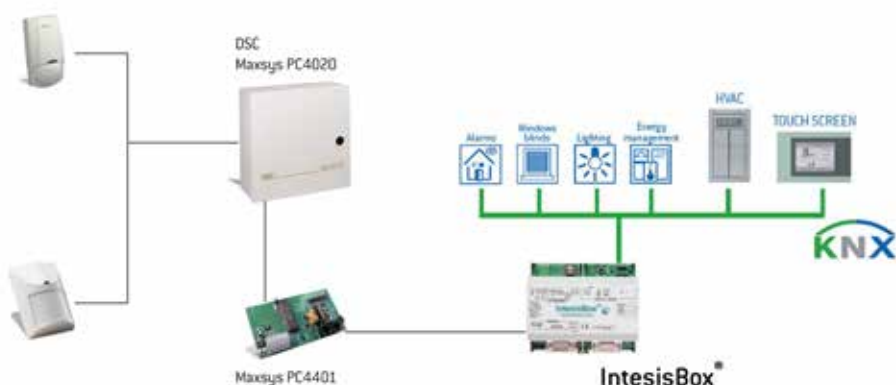
Specifications
- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX bus
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 6 modules enclosure

Models available
- IBOX-KNX-DSC4020 (up to 16 zones)

Main features
- Easy installation. Direct connection to the MAXSYS Data Interface Module PC4401.
- Great integration flexibility. Possibility of arming/disarming zones, monitoring alarm status, communication errors, etc. Also possibility to monitor motion detectors status when disarmed.

Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_KNX_DSC-4020_datasheet_eng.pdf

IBOX-KNX-ENO-A1 / IBOX-KNX-ENO-A1C

IntesisBox® IBOX-KNX-ENO-A1 / A1C gateways have been specially designed to allow Monitoring and bidirectional control of all the parameters and functionality of EnOcean devices from KNX installations.

EnOcean Devices

Switches
· Wireless Switches
· Key card readers
· Window contacts
· Industrial switches

Sensors
· Temperature Sensors
· Humidity Sensors
· Movement Sensors
· Luminance Sensors

Automation
· Air Conditioners
· Actuators
· Room controllers
  and many others

Integration example:
Conventional EnOcean devices, Mitsubishi Electric and DAIKIN Air Conditioner using the Enocean gateway.

Specifications

- Bidirectional: Monitoring and Control
- Configuration from ETS
- Direct connection to KNX bus
- No external power supply required
- Small size (WxHxD): 70 x 100 x 28 mm.

Models available

- IBOX-KNX-ENO-A1 (Enocean freq. 868 Mhz Europe)
- IBOX-KNX-ENO-A1C (EnOcean freq: 315 MHz. USA and Asia)

** For other world locations contact your supplier.

Main features

- Easy installation. Direct connection to the KNX bus and installed within the EnOcean signal range.
- Great integration flexibility. The IntesisBox device sends/receives telegrams from/to other Enocean devices such as switches, card readers, thermostats, room controllers, actuators, etc.
- Advanced integration for IntesisBox AC EnOcean interfaces like Daikin and Mitsubishi Electric, Panasonic, Mitsubishi Heavy, ...
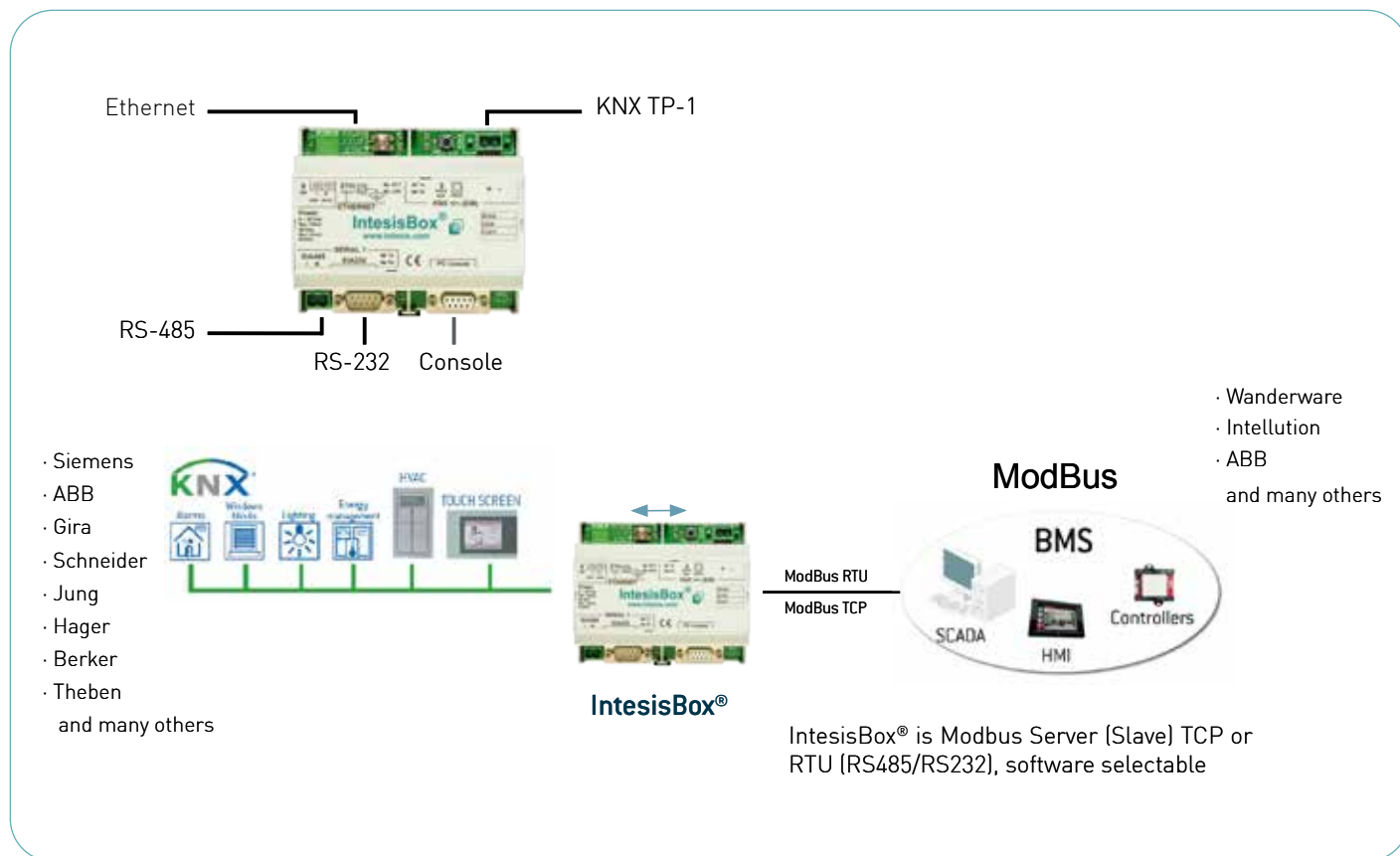
Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_KNX_ENO_datasheet_eng.pdf

Intesis

IBOX-MBS-KNX

IntesisBox® IBOX-MBS-KNX gateway has been specially designed to allow monitoring and bidirectional control of all the parameters and functionality of KNX systems from ModBus installations.

Ethernet ——————— ——————— KNX TP-1

RS-485 ———————

RS-232   Console

· Siemens
· ABB
· Gira
· Schneider
· Jung
· Hager
· Berker
· Theben
  and many others

ModBus

· Wanderware
· Intellution
· ABB
  and many others

ModBus RTU
ModBus TCP

IntesisBox®

IntesisBox® is Modbus Server (Slave) TCP or RTU (RS485/RS232), software selectable

---

Specifications
- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX and ModBus
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 6 modules enclosure

Models available
- IBOX-MBS-KNX-100 (Maximum 100 control points)
- IBOX-MBS-KNX-A (Maximum 500 control points)
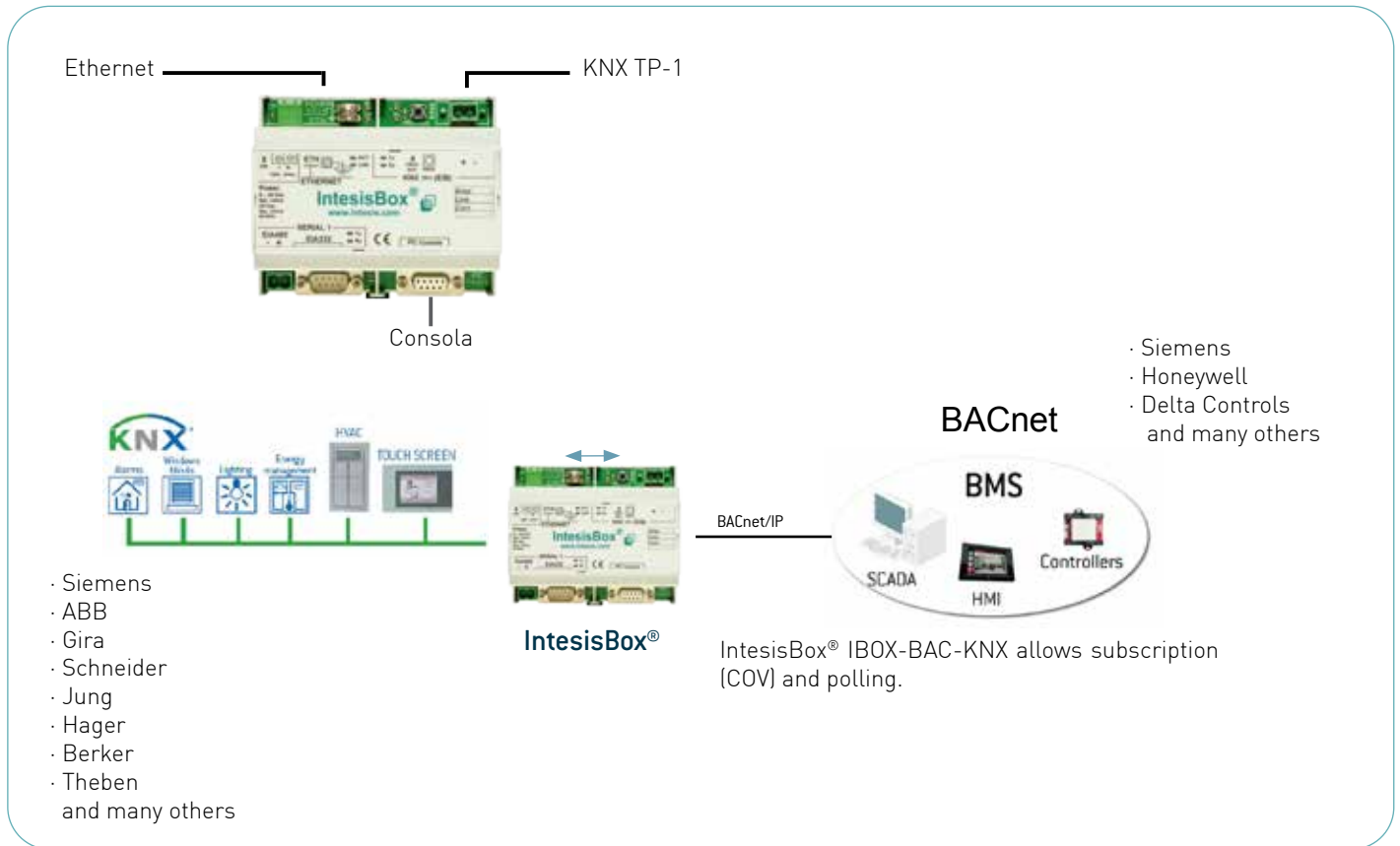- IBOX-MBS-KNX-B (Maximum 3000 control points)

Main features
- Easy installation. Direct connection to KNX twisted pair bus (TP-1)
- Easy and fast configuration of the ModBus registers with supplied software LinkBoxMB.
- Great integration flexibility. The gateway becomes another device in the KNX system. The ModBus interface supports ModBus TCP or ModBus RTU(RS-232 o RS-485), software selectable, and behaves as a ModBus slave device.
- Advanced integration of KNX installations (light control, blinds, ...) in building management systems based in ModBus (Wanderware, Intellution, ABB, Schneider,...).

Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_Modbus_Server_KNX_datasheet_eng.pdf

IBOX-BAC-KNX

IntesisBox® IBOX-BAC-KNX gateway has been specially designed to allow monitoring and bidirectional control of KNX systems from BACnet/IP installations.

Specifications

- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX and BACnet/IP network
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 6 modules enclosure

Models available

- IBOX-BAC-KNX-100 (Maximum 100 control points)
- IBOX-BAC-KNX-A (Maximum 500 control points)
- IBOX-BAC-KNX-B (Maximum 3000 control points)

Main features

- Easy installation. Direct connection to KNX twisted pair bus (TP-1)
- Easy and fast configuration with supplied software LinkBoxBAC.
- Great integration flexibility. The gateway is a BACnet/IP server. Reading done either by continuous polling or using subscription (COV). BACnet server series are configured with supplied software LinkBoxBAC.
- Advanced integration of KNX installations (light control, blinds, ...) in building management systems based in BACnet/IP (Siemens, Honeywell, Delta Controls, Trend, etc.

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_BACnet_IP_Server_KNX_datasheet_eng.pdf
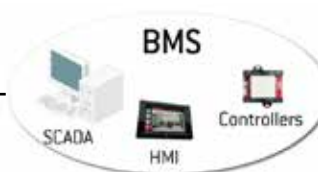
Intesis

IBOX-LON-KNX

IntesisBox® IBOX-LON-KNX gateway has been specially designed to allow monitoring and bidirectional control of KNX systems from LonWorks® installations.

LON FT/TP-10

KNX TP-1

USB Console
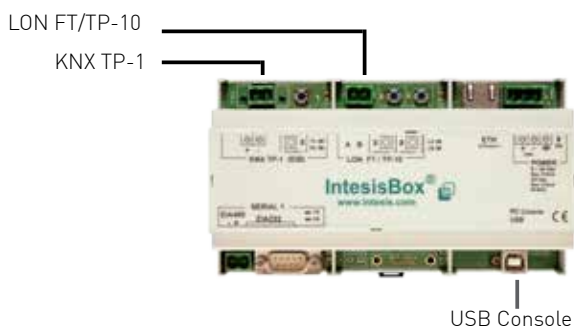
· Siemens
· ABB
· Gira
· Schneider
· Jung
· Hager
· Berker
· Theben
and many others

Lonworks®

· T.A.C.
· Honeywell
· Siemens
  and many others

BMS

FT/TP-10

IntesisBox®

IntesisBox® has dual LON Interface that allows communication with it either using "legacy network management" or "ECS – Enhanced Command Set"

Specifications
- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX and LON bus
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 9 modules enclosure

Models available
- IBOX-LON-KNX-200 (Maximum 200 control points)
- IBOX-LON-KNX-A (Maximum 500 control points)
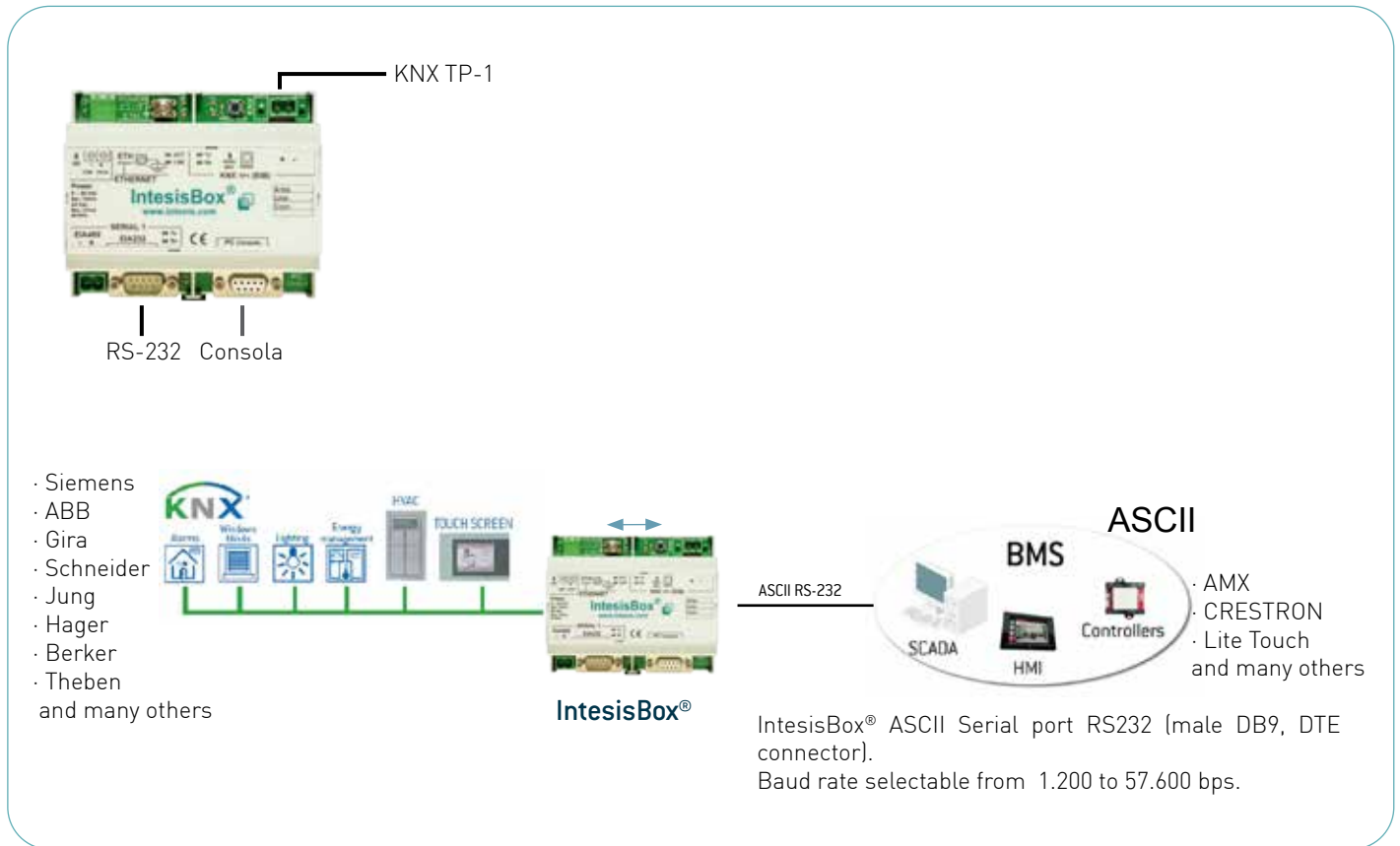- IBOX-LON-KNX-B (Maximum 4000 control points)

Main features
- Easy installation. Direct connection to KNX twisted pair bus (TP-1)
- Great integration flexibility. All KNX installation appears like a node in the LonWorks network. IntesisBox® LON and KNX interfaces configured with LinkBoxLON supplied software. KNX group addresses can be imported from ETS CSV or ESF files.
- Advanced integration of KNX installations (light control, blinds, ...) in BMS systems based in LONWorks (TAC, Siemens, Honeywell ...).

Info
Datasheet: http://www.intesis.com/pdf/IntesisBox_LON_KNX_datasheet_eng.pdf

IBOX-ASCII-KNX

IntesisBox® IBOX-ASCII-KNX gateway has been specially designed to allow monitoring and bidirectional control of KNX systems using simple text (ASCII) messages.

KNX TP-1

RS-232   Consola

· Siemens
· ABB
· Gira
· Schneider
· Jung
· Hager
· Berker
· Theben
  and many others

IntesisBox®

ASCII RS-232

ASCII

BMS

· AMX
· CRESTRON
· Lite Touch
  and many others

IntesisBox® ASCII Serial port RS232 (male DB9, DTE connector).
Baud rate selectable from 1.200 to 57.600 bps.

Specifications

- Bidirectional: Monitoring and Control
- Robust and reliable hardware
- Direct connection to KNX
- Independent management of communications
- Power supply: 9 to 24Vdc or 24Vac
- Standard DIN-Rail 6 modules enclosure

Models available

- IBOX-ASCII-KNX (Maximum 4000 control points)

Main features

- Easy installation. Direct connection to KNX twisted pair bus (TP-1).
- Great integration flexibility. The gateway becomes another device in KNX system. A mirror of KNX points values is kept ready to serve the ASCII system. Configuration with supplied software LinkBoxEIB. KNX variables read/written by text messages.
- Complete and transparent integration of KNX installations (light control, blinds, ...) in programmable control systems using simple text messages through RS232 serial protocol (AMX, Crestron, Lite Touch,...).

Info

Datasheet: http://www.intesis.com/pdf/IntesisBox_ASCII_Server_KNX_datasheet_eng.pdf

Intesis

your partner for **systems integration**

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