

Making Building Automation go Jurther









KNX EIB Products

March 2009

Overview of products

KNX EIB gateways and interfaces designed for integration of third party systems into KNX control systems

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IntesisBox® KNX - Mitsubishi Electric A.C. (Domestic/Mr.Slim)
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IntesisBox® KNX - Mitsubishi Electric A.C. (City Multi)

IntesisBox® KNX - BACnet/IP client

IntesisBox® KNX - LON

IntesisBox® KNX - Airzone Innobus

IntesisBox® KNX - MODBUS RTU master

IntesisBox® KNX - MODBUS TCP master

KNX EIB gateways designed for integration of KNX installations into other control systems (BMS, SCADA, HMI, Touch Panels....)

IntesisBox® LON - KNX

IntesisBox® BACnet/IP Server - KNX

IntesisBox® MODBUS Server - KNX

IntesisBox® ASCII Server - KNX





IntesisBox® KNX series

KNX EIB gateways and interfaces designed for integration of third party systems into KNX control systems

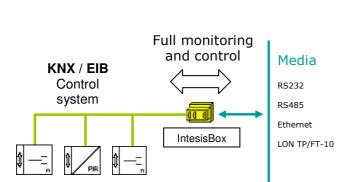
Protocols

BACnet

Modbus

LonWorks

Proprietary



Systems

HVAC Air Conditioning Chillers/Heaters Thermostats Fancoil controllers Room controllers

Metering **Electricity Meters Energy meters**

Automation BMS **PLCs**

And many others

Manufacturers

Daikin Mitsubishi Electric Mitsubishi Heavy Toshiba Fujitsu General LG Airzone

Trane York Carel Ciat

Kiebak & Peter

Merlin Gerin Kamstrup Siemens

Siemens ABB Schneider

And many others

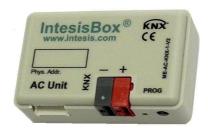




IntesisBox® KNX - Mitsubishi Electric A.C. (Domestic/Mr.Slim)

Order Code: ME-AC-KNX-1-V2





KNX EIB interface for Domestic & Mr.Slim (commercial) line of Mitsubishi Electric air conditioners.

- The ME-AC-KNX-1-V2 interface has been designed in co-operation with Mitsubishi Electric to offer full monitoring and control of Domestic & Mr.Slim line of air conditioners from KNX EIB.
- Small dimensions. Connects directly to the EIB bus in one side, and in the other side connects to the PCB of the A.C. indoor unit, no other external power is required. The cable needed to connect to the A.C. indoor unit, 3 meters long, is also supplied with the interface.
- Every A.C. indoor unit to connect to KNX requires an ME-AC-KNX-1-V2 interface. Every A.C. indoor unit equipped with ME-AC-KNX-1-V2 becomes an independent KNX device, configurable from ETS, and offering full monitoring/control of the unit from the KNX control system.
- Control based on the ambient temperature measured by the own AC unit or supplied by any external KNX temperature sensor, selectable.
- All the functions allowed by the remote IR control are allowed also by ME-AC-KNX-1-V2, and some additional ones really useful, as for example to stop the A.C. unit when the window of the room is opened, save and execute scenes, etc.
- Communication with KNX is bi-directional, from KNX you can access to operation mode, temperature, errors... of the A.C. unit.





IntesisBox[®]

IntesisBox® KNX - Mitsubishi Electric A.C. (City Multi)

Order Code: ME-AC-KNX-15 / ME-AC-KNX-100



KNX EIB gateway for City Multi (professional) line of Mitsubishi Electric air conditioners.

- ME-AC-KNX-15 and ME-AC-KNX-100 gateways have been designed in cooperation with Mitsubishi Electric to offer full monitoring/control of City Multi (professional) line of air conditioners from KNX EIB installations.
- It connects directly to the EIB bus in one side, and in the other side it communicates to the City Multi system through the Mitsubishi Electric G-50A or GB-50A interface. For this integration it is required the interface G-50A or GB-50A from Mitsubishi Electric be installed in the City Multi system.
- Independent monitoring/control (bi-directional) from KNX of every group of A.C. indoor units, of multiple parameters (ambient temperature, set point temperature, operation mode, fan speed...). In the City Multi system the control unit is the group of indoor units, although it can be configured just one indoor unit per group and this way be able to control single indoor units individually.
- The ME-AC-KNX-15 supports up to 15 groups of A.C. indoor units, the ME-AC-KNX-100 supports up to 100 groups.
- All the functions allowed by the A.C. remote control are allowed also from KNX through this gateway.
- IntesisBox KNX series are configured using *LinkBoxEIB*, a software tool for windowsTM which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxEIB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*





IntesisBox® KNX - BACnet/IP client

Order Code: IBOX-KNX-BAC-A / IBOX-KNX-BAC-B



Gateway for integration of VRV air conditioning of the main manufacturers into KNX EIB installations, and in general to integrate any BACnet/IP device into KNX EIB.

- IBOX-KNX-BAC-A and IBOX-KNX-BAC-B have been designed to offer a full integration (monitoring and control) of DAIKIN air conditioners into KNX EIB installations, specially suited for big installations. The gateway not only allows DAIKIN integration but integration into KNX EIB of any BACnet/IP device or system.
- Connects directly to the EIB bus in one side, and in the other side it communicates via BACnet/IP to the DAIKIN system. *The BACnet interface DMS502B51 from DAIKIN is required for this integration*.
- Independent monitoring/control (bi-directional) from KNX of every A.C. indoor unit or group of units, of multiple parameters (ambient temperature, set point temperature, operation mode, fan speed...).
- IBOX-KNX-BAC-A supports up to 500 points, IBOX-KNX-BAC-B supports up to 4000 points and up to 4 BACnet/IP devices.
- IntesisBox KNX series are configured using *LinkBoxEIB*, a software tool for windowsTM which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxEIB with no additional cost, making the configuration of IntesisBox for integration of many brands of air conditioning (DAIKIN, Mitsubishi Heavy, Toshiba, Fujitsu-General, Samsung, LG...) extremely easy and quick, almost plug & play.*





IntesisBox® KNX - LON

Order Code: IBOX-KNX-LON-A / IBOX-KNX-LON-B



Gateway for integration of VRV air conditioning of the main manufacturers into KNX EIB installations, and in general to integrate any LON (TP/FT-10) device into KNX EIB.

- IBOX-KNX-LON-A and IBOX-KNX-LON-B have been designed to offer a full integration (monitoring and control) of DAIKIN air conditioners into KNX EIB installations, specially suited for small / medium size installations. The gateway not only allows DAIKIN integration but integration into KNX EIB of any LON (TP/FT-10) device or system.
- Connects directly to the EIB bus in one side, and in the other side it communicates via LON with the DAIKIN system. *The LON interface DMS504B51 from DAIKIN is required for this integration.*
- Independent monitoring/control (bi-directional) from KNX of every A.C. indoor unit or group of units, of multiple parameters (ambient temperature, set point temperature, operation mode, fan speed...).
- The model IBOX-KNX-LON-A supports up to 500 points, the model IBOX-KNX-LON-B supports up to 4000 points.
- IntesisBox KNX series are configured using LinkBoxEIB, a software tool for windowsTM which is supplied along with the purchase of IntesisBox with no additional cost. Demo configuration files are also supplied for LinkBoxEIB with no additional cost, making the configuration of IntesisBox for integration of many brands of air conditioning (DAIKIN, Mitsubishi Electric, Mitsubishi Heavy, Toshiba, Fujitsu-General, Samsung, LG...) extremely easy and quick, almost plug & play.





IntesisBox[®]

IntesisBox® KNX - Airzone Innobus

Order Code: IBOX-KNX-AIRZONE



Gateway for integration of AIRZONE Innobus air conditioning into KNX EIB installations.

- IBOX-KNX-AIRZONE has been designed in co-operation with Airzone to offer full monitoring/control of Innobus air conditioning systems from KNX EIB installations.
- Connects directly to the EIB bus in one side, and in the other side it communicates to the Airzone system via RS485 bus.
- Independent monitoring/control (bi-directional) from KNX of multiple parameters for every zone.
- Supports monitoring/control of up to 4 CS (system controllers) and 128 zones.
- IntesisBox KNX series are configured using LinkBoxEIB, a software tool for windowsTM which is supplied along with the purchase of IntesisBox with no additional cost. Demo configuration files are also supplied for LinkBoxEIB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.





IntesisBox® KNX - MODBUS RTU master

Order Code: IBOX-KNX-MBRTU-A / IBOX-KNX-MBRTU-B



Gateway for integration of Modbus RTU slave devices (thermostats, electricity meters, chillers, heating floors, PLCs...) into KNX EIB installations.

- IBOX-KNX-MBRTU-A and IBOX-KNX-MBRTU-B have been designed to offer full monitoring/control of Modbus slave devices or systems from KNX EIB installations.
- Specially suited for integration of thermostats, electricity meters, chillers, heating floors, PLCs... into KNX EIB.
- Connects directly to the EIB bus in one side, and in the other side it communicates to the system to integrate via Modbus RTU.
- Supports Modbus RTU protocol over RS232 or RS485.
- Bi-directional monitoring and control, register addresses, functions and data types fully configurable in the Modbus interface.
- IBOX-KNX-MBRTU-100 supports up to 100 points, IBOX-KNX-MBRTU-A up to 500 points, and IBOX-KNX-MBRTU-B up to 3000 points. All of them allow integrating up to 254 Modbus slave devices.
- IntesisBox KNX series are configured using *LinkBoxEIB*, a software tool for windowsTM which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxEIB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*





IntesisBox® KNX - MODBUS TCP master

Order Code: IBOX-KNX-MBTCP-A / IBOX-KNX-MBTCP-B



Gateway for integration of Modbus TCP slave devices (thermostats, electricity meters, chillers, heating floors, heat pumps, PLCs...) into KNX EIB installations.

- IBOX-KNX-MBTCP-A and IBOX-KNX-MBTCP-B have been designed to offer full monitoring/control of Modbus slave devices or systems from KNX EIB installations.
- Specially suited for integration of thermostats, electricity meters, chillers, heating floors, heat pumps, PLCs... into KNX EIB.
- Connects directly to the EIB bus in one side, and in the other side it communicates to the system to integrate via Modbus TCP.
- Supports Modbus protocol over TCP/IP.
- Bi-directional monitoring and control, register addresses, functions and data types fully configurable in the Modbus interface.
- IBOX-KNX-MBTCP-100 supports up to 100 points, IBOX-KNX-MBTCP-A up to 500 points, and IBOX-KNX-MBTCP-B up to 3000 points.
- IntesisBox KNX series are configured using *LinkBoxEIB*, a software tool for windowsTM which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxEIB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*







LON **BACnet/IP Server Modbus Server ASCII Server**



KNX EIB gateways designed for integration of KNX installations into other control systems (BMS, SCADA, HMI, Touch Panels....)

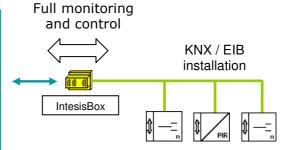
Manufacturers

Honeywell Siemens Schneider TAC Trend Controls Sauter Delta Controls Alerton **KMC AMX** Crestron LiteTouch Wonderware Intellution i-Fix InduSoft Areal Topkapi Hakko electronics

And many others

Protocols LonWorks **BACnet** Modbus **ASCII**

Media RS232 RS485 Ethernet LON TP/FT-10







IntesisBox® LON - KNX

Order Code: IBOX-LON-KNX-200 / IBOX-LON-KNX-A / IBOX-LON-KNX-B





Gateway for monitoring and control KNX EIB installations from LonWorks based control systems (TAC, Kiebak & Peter...)

- IBOX-LON-KNX-200/A/B have been designed to offer full integration of KNX EIB installations into LonWorks based control systems
- This is a powerful and cost effective solution that will allow you to use and combine
 in your projects the very best of both control technologies, LonWorks and KNX, as
 for example integrate any KNX based lighting control transparently into the
 LonWorks based BMS system.
- Connects directly to the EIB bus in one side, and in the other side it connects to the LonWorks control system via TP/FT-10 channel.
- Fully bi-directional monitoring and control between KNX and LonWorks.
- Allows bindings of its internal SNVTs in LonWorks side using standard LonWorks commissioning tools (LonMaker...). The gateway is seen as one more node into the LonWorks network allowing all standard commissioning features of LonWorks.
- IBOX-LON-KNX-200 supports up to 200 points, IBOX-LON-KNX-A up to 500 points, and IBOX-LON-KNX-B up to 4000 points.
- IBOX-LON-KNX-200/A/B are configured using *LinkBoxLON*, a software tool for windowsTM with a powerful and friendly graphical interface for an easy and quick gateway's configuration procedure. LinkBoxLON is supplied along with the purchase of IntesisBox with no additional cost.





IntesisBox® BACnet/IP Server - KNX

Order Code: IBOX-BAC-KNX-A / IBOX-BAC-KNX-B



Gateway for monitoring and control KNX EIB installations from BACnet/IP control systems (SCADA, BMS, PLC...)

- IBOX-BAC-KNX-A and IBOX-BAC-KNX-B have been designed to offer full monitoring and control of KNX EIB installations from BACnet/IP control systems (SCADA, BMS, PLC...).
- Connects directly to the EIB bus in one side, and in the other side it communicates to the monitoring/control system via BACnet/IP protocol.
- Bi-directional monitoring and control between KNX and BACnet.
- Allows *polling* and subscription requests *COV* from BACnet side.
- IBOX-BAC-KNX-A supports up to 500 points, and IBOX-BAC-KNX-B supports up to 3000 points.
- IBOX-BAC-KNX-A/B are configured using *LinkBoxBacnet*, a software tool for windowsTM which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxBacnet with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*





IntesisBox® MODBUS Server - KNX

Order Code: IBOX-MBS-KNX-A / IBOX-MBS-KNX-B



Gateway for monitoring and control KNX EIB installations from MODBUS RTU or TCP control systems (SCADA, BMS, PLC...)

- IBOX-MBS-KNX-A and IBOX-MBS-KNX-B have been designed to offer full monitoring and control of KNX EIB installations from Modbus RTU or TCP control systems (SCADA, BMS, PLC...).
- Connects directly to the EIB bus in one side, and in the other side it communicates to the monitoring/control system via Modbus RTU or TCP protocol.
- Bi-directional monitoring and control between KNX and Modbus.
- Allows Modbus TCP or Modbus RTU (RS232 or RS485), software configurable.
- IBOX-MBS-KNX-100 supports up to 100 points, IBOX-MBS-KNX-A up to 500 points, and IBOX-MBS-KNX-B up to 3000 points.
- IBOX-MBS-KNX-100/A/B are configured using *LinkBoxMB*, a software tool for windowsTM which is supplied along with the purchase of IntesisBox with no additional cost. *Demo configuration files are also supplied for LinkBoxMB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*





IntesisBox® ASCII Server - KNX

Order Code: IBOX-ASCII-KNX



Gateway for monitoring and control KNX EIB installations from programmable controllers (AMX, Crestron, Litetouch...), touch panels, PCs... using simple text messages.

- IBOX-ASCII-KNX has been designed to offer full monitoring and control of KNX EIB installations from programmable controllers, touchpanels, PCs, etc. "talking" simple text messages.
- Specially suited to integrate KNX EIB installations into AMX and Crestron controllers.
- Connects directly to the EIB bus in one side, and in the other side it communicates with the monitoring/control system via simple text messages over RS232 serial line.
- Accepts polling of internal points through the RS232 port using simple text commands, and also automatic sending of text messages following a change of value in KNX EIB, configurable. A fully bi-directional monitoring and control of the EIB installation using simple text messages.
- Supports up to 4000 datapoints.
- IBOX-ASCII-KNX is configured using LinkBoxEIB, a software tool for windows[™] which is supplied along with the purchase of IntesisBox with no additional cost. Demo configuration files are also supplied for LinkBoxEIB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.





Официальный дистрибьютор





INTESIS SOFTWARE provides innovative solutions for home and building automation in more than 40 countries around the world

