

IntesisBox®

Making Building Automation go further



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KNX EIB Products

October 2008

Overview of products

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

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

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

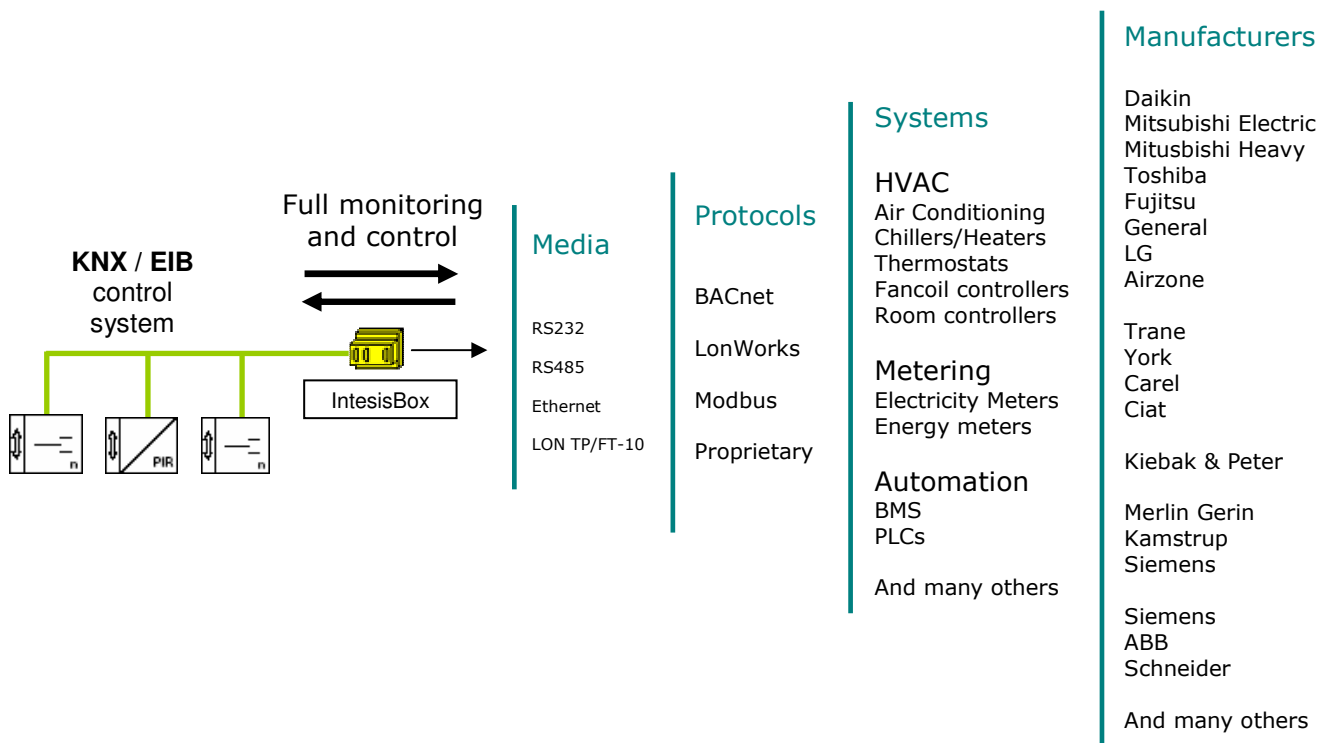
IntesisBox[®] MODBUS server - KNX

IntesisBox[®] ASCII server - KNX



IntesisBox[®] KNX series

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



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

Ref. ME-AC-KNX-1



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

- The ME-AC-KNX-1 interface has been designed in co-operation with Mitsubishi Electric to offer full monitoring/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 external power is required. *The cable needed to connect to the A.C. indoor unit, 3 meters long, is also delivered with the interface.*
- Every A.C. indoor unit to connect to KNX requires an ME-AC-KNX-1 interface.
- Every A.C. indoor unit equipped with ME-AC-KNX-1 becomes an independent KNX device, configurable from ETS, and offering full monitoring/control of the unit from the KNX installation.
- All the functions allowed by the remote IR control are allowed also by ME-AC-KNX-1, and some additional ones really useful, as for example to stop the A.C. unit when the window of the room is opened.
- Communication with KNX is bi-directional, from KNX you can access: operation mode, temperature, errors... of the A.C. unit.

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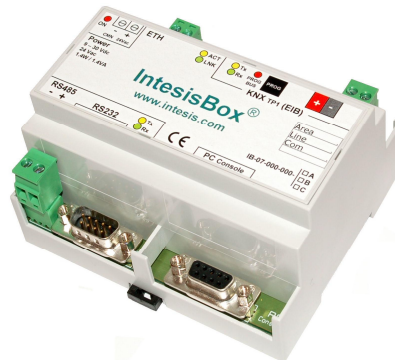
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IntesisBox® KNX - Mitsubishi Electric A.C. (City Multi)

Ref. 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 co-operation 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 (with XML option) 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 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.*

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IntesisBox® KNX - BACnet/IP client

Ref. IBOX-KNX-BAC-A / IBOX-KNX-BAC-B



Gateway for integration of DAIKIN air conditioners into KNX EIB installations, and in general to integrate any BACnet/IP system or 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 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 integration of many brands of air conditioning (DAIKIN, Mitsubishi Heavy, Toshiba, Fujitsu-General, Samsung, LG...) extremely easy and quick, almost plug & play.*

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IntesisBox® KNX - LON

Ref. IBOX-KNX-LON-A / IBOX-KNX-LON-B



Gateway for integration of DAIKIN air conditioners in KNX EIB installations, and in general to integrate any LON (TP/FT-10) system or 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 to 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 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 integration of many brands of air conditioning (DAIKIN, Mitsubishi Electric, Mitsubishi Heavy, Toshiba, Fujitsu-General, Samsung, LG...) extremely easy and quick, almost plug & play.*

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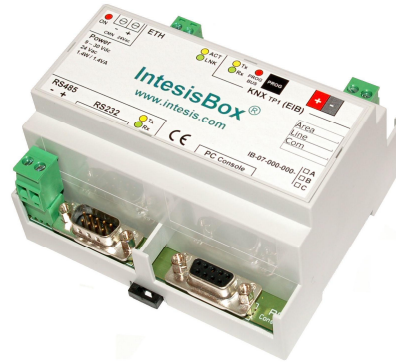
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IntesisBox® KNX - Airzone Innobus

Ref. 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 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.*

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IntesisBox® KNX - MODBUS RTU master

Ref. 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-A supports up to 500 points, and IBOX-KNX-MBRTU-B supports up to 3000.
- IntesisBox KNX series are 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.*

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IntesisBox[®] KNX - MODBUS TCP master

Ref. 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-A supports up to 500 points, and IBOX-KNX-MBTCP-B supports up to 3000 points.
- IntesisBox KNX series are 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.*

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LON
BACnet/IP server
Modbus server
ASCII server

KNX

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 Building
Alerton
KMC
AMX
Crestron
LiteTouch
Wonderware
Intellution i-Fix
InduSoft
Areal Topkapi
Hakko electronics

And many others

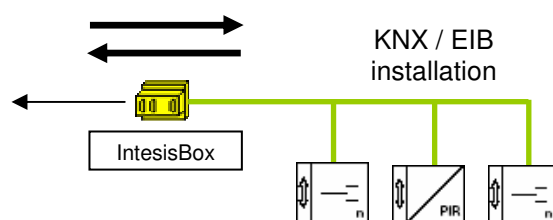
Protocols

LonWorks
BACnet
Modbus
ASCII

Media

RS232
RS485
Ethernet
LON TP/FT-10

Full monitoring
and control



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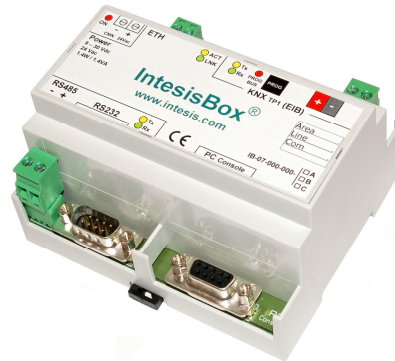
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IntesisBox® LON - KNX

Ref. IBOX-LON-KNX-A / IBOX-LON-KNX-B

NEW



**Available
December' 08**

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

- IBOX-LON-KNX-A and IBOX-LON-KNX-B have been designed to offer full integration of KNX EIB installations into LonWorks based control systems.
- 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...).
- IBOX-LON-KNX-A supports up to 500 points, and IBOX-LON-KNX-B supports up to 4000 points.
- IBOX-LON-KNX-A/B are configured using *LinkBoxV5*, 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 LinkBoxV5, making the configuration of IntesisBox for this integration easy and quick.*

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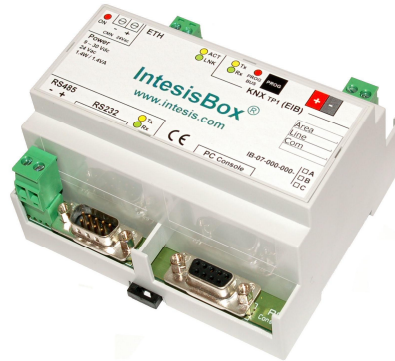
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IntesisBox® BACnet/IP server - KNX

Ref. 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 windows™ 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.*

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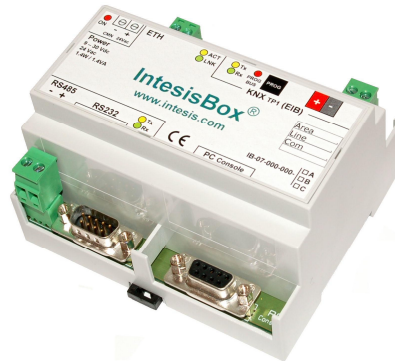
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IntesisBox[®] MODBUS server - KNX

Ref. 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-A supports up to 500 points, and IBOX-MBS-KNX-B supports up to 3000 points.
- IBOX-MBS-KNX-A/B are configured using *LinkBoxMB*, 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 LinkBoxMB with no additional cost, making the configuration of IntesisBox for this integration extremely easy and quick, almost plug & play.*

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IntesisBox® ASCII server - KNX

Ref. IBOX-ASCII-KNX



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

- IBOX-ASCII-KNX has been designed to offer full monitoring and control of KNX EIB installations from ASCII programmable controllers, touchpanels, PCs, etc. "talking" simple ASCII 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 to the controller via simple ASCII protocol over RS232.
- Accepts polling of internal points from ASCII controller, and also automatic sending of ASCII messages following a change of value in KNX EIB, configurable. Bi-directional monitoring and control of the EIB installation using simple ASCII 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.*

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