



OVERVIEW IntesisBox® from INTESIS



One of the most important and complex aspects of a KNX Building Automation system is the full integration of other existing subsystem with their respective protocols (BACnet, LonWorks, Modbus, Proprietary...)

The IntesisBox® Series from Intesis make this integration possible in most cases in a very easy and reliable way. As you will see in the table below, there are two types of KNX IntesisBox® Gateways:

- ✦ Those meant to integrate other subsystems into a KNX project (even without deep knowledge of the other protocol)
- ✦ Those meant to integrate a KNX system into other control systems



These Gateways are just essential for Building Automation systems and thus worth getting to know. Also highly recommended for Home Automation systems, mainly for HVAC integration.

- ❖ IntesisBox® is a small microcontrolled device allowing DIN rail mounting for installation inside industrial cabinet and with RS232, RS485, Ethernet, KNX TP1 (EIB), and LonWorks TP/FT-10 interfaces designed specifically to offer Intesis's range of integrations in a robust and small device with null maintenance. With this autonomous device it is possible to interconnect directly the internal system (building automation, industrial automation, BACnet, ModBus, KNX, LonWorks...) to the external system (fire system, access control system, security system, HVAC, cold/warm generation, energy generation & measurement, lighting, hotel management, home automation...).
- ❖ A console RS232/USB port is also available to connect a laptop PC for programming and monitoring the device. IntesisBox® also offers the possibility to be connected to Ethernet/LAN/WAN networks expanding thus its possibilities with connection to ethernet/IP based protocol systems, such as ModBus IP, BACnet/IP, XML, etc.
- ❖ Inside its internal structure IntesisBox® incorporates a high performance and reliability microcontroller with flash (non volatile) memory where is saved the operating system and the integration code (firmware). This internal structure, along with a watchdog system, ensures a suitable operation of the device in every moment, even in front of power irregularities such as micro-cuts or long power failures.
- ❖ It has no mechanical mobile components (fans, hard discs...) reducing this way potential malfunctions and reducing also the maintenance needed almost to zero, making this device ideal for industrial environments.
- ❖ IntesisBox® allows DIN rail mounting for its easy installation inside industrial cabinet and allows a wide range of input supply voltage, from 9 to 30VDC and also 24VAC, with a low power consumption of 1.4 watts.
- ❖ The operating temperature range is from -40°C to +70°C and the relative humidity from 5% to 95% (non condensing).
- ❖ It is not necessary any external RS232/RS485 converter because IntesisBox® has RS485 port and can be directly connected to a RS485 bus. IntesisBox® also incorporates a KNX TP1 (EIB) optocoupled port to connect to KNX EIB networks, and a LonWorks TP/FT-10 port to connect to LonWorks networks.
- ❖ All available IntesisBox® hardware versions are compliant with RoHS directive (2002/95/CE).
- ❖ Along with the device, it is also supplied (with no additional cost) LinkBox software, a software tool needed for configuring and monitoring the IntesisBox®. LinkBox software runs on MS Windows® operating systems and uses a serial port to communicate to IntesisBox®. It is possible to use LinkBox Software off-line (not connected to IntesisBox®) to configure the IntesisBox® more comfortably in the office and later download the configuration to the device using the serial connection in the field.
- ❖ Along with IntesisBox®, it is also supplied the console cable needed to configure the device, this is a standard DB9 male - DB9 female cable, and can be also supplied (on demand) an external plug-in power supply (european plug) 230VAC/12VDC 300mA to power the IntesisBox®.

INDEX



IntesisBox®

KNX EIB GATEWAYS AND INTERFACES DESIGNED FOR INTEGRATION
OF THIRD PARTY SYSTEMS INTO KNX CONTROL SYSTEMS











◉ P.01 ◉

KNX EIB GATEWAYS DESIGNED FOR INTEGRATION OF KNX INSTALLATIONS
INTO OTHER CONTROL SYSTEMS (BMS, SCADA, HMI, TOUCH PANELS....)

◉ P.03 ◉






MANUFACTURER	WEB CODE	MANUF. REFERENCE	DESCRIPTION	LOGO OTHER SYSTEMS	DES. RANGE	LIST PRICE	IMAGE
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KNX EIB GATEWAYS AND INTERFACES DESIGNED FOR INTEGRATION OF THIRD PARTY SYSTEMS INTO KNX CONTROL SYSTEMS

INTESIS	8214	ME-AC-KNX-1-V2	GATEWAY KNX - MITSUBISHI ELECTRIC (DOMESTIC/MR.SLIM)		IntesisBox® KNX - XXX	193,00 €	
	9114	ME-AC-KNX-15	GATEWAY KNX - MITSUBISHI ELECTRIC (CITY MULTI)	15 groups 	IntesisBox® KNX - XXX	1.580,00 €	
	9115	ME-AC-KNX-100	GATEWAY KNX - MITSUBISHI ELECTRIC (CITY MULTI)	100 groups	IntesisBox® KNX - XXX	2.108,00 €	
	9111	IBOX-KNX-BAC-A	GATEWAY KNX - BACNET/IP CLIENT	500 points 	IntesisBox® KNX - XXX	1.580,00 €	
	9107	IBOX-KNX-BAC-B	GATEWAY KNX - BACNET/IP CLIENT	4000 points	IntesisBox® KNX - XXX	2.400,00 €	
	8389	IBOX-KNX-LON-A	GATEWAY KNX - LON	500 points 	IntesisBox® KNX - XXX	1.580,00 €	
	7840	IBOX-KNX-LON-B	GATEWAY KNX - LON	4000 points	IntesisBox® KNX - XXX	2.400,00 €	
	9575	DK-AC-KNX-1	GATEWAY KNX - DAIKIN	Domestic line 	IntesisBox® KNX - XXX	155,00 €	
	9539	DK-RC-KNX-1	GATEWAY KNX - DAIKIN	SKY Y VRV	IntesisBox® KNX - XXX	193,00 €	

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KNX EIB GATEWAYS AND INTERFACES DESIGNED FOR INTEGRATION OF THIRD PARTY SYSTEMS INTO KNX CONTROL SYSTEMS

INTESIS	9117	IBOX-KNX-AIRZONE	GATEWAY KNX - AIRZONE INNOBUS			IntesisBox® KNX - XXX	380,00 €	
	8999	IBOX-KNX-MBRTU-100	GATEWAY KNX - MODBUS RTU MASTER	100 points	Modbus®	IntesisBox® KNX - XXX	500,00 €	
	9112	IBOX-KNX-MBRTU-A	GATEWAY KNX - MODBUS RTU MASTER	500 points		IntesisBox® KNX - XXX	1.200,00 €	
	9113	IBOX-KNX-MBRTU-B	GATEWAY KNX - MODBUS RTU MASTER	3000 points		IntesisBox® KNX - XXX	2.200,00 €	
	9108	IBOX-KNX-MBTCP-100	GATEWAY KNX - MODBUS TCP MASTER	100 points		IntesisBox® KNX - XXX	550,00 €	
	9109	IBOX-KNX-MBTCP-A	GATEWAY KNX - MODBUS TCP MASTER	500 points		IntesisBox® KNX - XXX	1.200,00 €	
	9110	IBOX-KNX-MBTCP-B	GATEWAY KNX - MODBUS TCP MASTER	3000 points		IntesisBox® KNX - XXX	2.200,00 €	
	9919	LG-AC-KNX-16	GATEWAY KNX - LG AIR CONDITIONING	16 Int. Units		IntesisBox® KNX - XXX	1.300,00 €	
	9920	LG-AC-KNX-64	GATEWAY KNX - LG AIR CONDITIONING	64 Int. Units		IntesisBox® KNX - XXX	2.500,00 €	

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KNX EIB GATEWAYS AND INTERFACES DESIGNED FOR INTEGRATION OF THIRD PARTY SYSTEMS INTO KNX CONTROL SYSTEMS

INTESIS	9921	SM-AC-KNX-16	GATEWAY KNX - SAMSUNG AIR CONDITIONING	16 Int. Units		IntesisBox® XXX - KNX	1.300,00 €	
	9922	SM-AC-KNX-64	GATEWAY KNX - SAMSUNG AIR CONDITIONING	64 Int. Units		IntesisBox® XXX - KNX	2.500,00 €	
	9923	SM-AC-KNX-128	GATEWAY KNX - SAMSUNG AIR CONDITIONING	128 Int. Units		IntesisBox® XXX - KNX	3.500,00 €	

KNX EIB GATEWAYS DESIGNED FOR INTEGRATION OF KNX INSTALLATIONS INTO OTHER CONTROL SYSTEMS (BMS, SCADA, HMI, TOUCH PANELS....)

INTESIS	9122	IBOX-LON-KNX-200	GATEWAY LON - KNX	200 points		IntesisBox® XXX - KNX	650,00 €	
	9123	IBOX-LON-KNX-A	GATEWAY LON - KNX	500 points		IntesisBox® XXX - KNX	1.400,00 €	
	9124	IBOX-LON-KNX-B	GATEWAY LON - KNX	4000 points		IntesisBox® XXX - KNX	2.400,00 €	
	9120	IBOX-BAC-KNX-A	GATEWAY BACNET/IP SERVER - KNX	500 points		IntesisBox® XXX - KNX	1.400,00 €	
	9121	IBOX-BAC-KNX-B	GATEWAY BACNET/IP SERVER - KNX	3000 points		IntesisBox® XXX - KNX	2.400,00 €	

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KNX EIB GATEWAYS DESIGNED FOR INTEGRATION OF KNX INSTALLATIONS INTO OTHER CONTROL SYSTEMS (BMS, SCADA, HMI, TOUCH PANELS...)

INTESIS	9116	IBOX-MBS-KNX-100	GATEWAY MODBUS SERVER - KNX	100 points	Modbus®	IntesisBox® XXX - KNX	500,00 €	
	9118	IBOX-MBS-KNX-A	GATEWAY MODBUS SERVER - KNX	500 points		IntesisBox® XXX - KNX	990,00 €	
	9119	IBOX-MBS-KNX-B	GATEWAY MODBUS SERVER - KNX	3000 points		IntesisBox® XXX - KNX	2.200,00 €	
	9125	IBOX-ASCII-KNX	GATEWAY ASCII SERVER - KNX		ASCII	IntesisBox® XXX - KNX	750,00 €	