



Certified portfolio with worldwide KNX standard

Our offer is used widely by most KNX manufacturers. It is recognized and already certified by the KNX association, making it simple to register your own products using our components.

Highlights

Investment-proof open standard for control of both commercial and residential buildings covering HVAC, lighting, shading, and more

Approved international standard (ISO/IEC 14543-3), European standard (CENELEC EN 50090 and CEN EN 13321), and Chinese standard (GB/Z 20965)

KNX products made by different manufacturers can be combined – the KNX trademark logo guarantees their interoperability

A single Engineering Tool Software (ETS) for all products

20 years of experience in the market

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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SIEMENS



GAMMA B2B

Building control components and finished goods in neutral version



A comprehensive range based on 20 years of experience

Siemens is a key supplier of building control solutions. Our B2B portfolio comprises transceivers, certified chipsets, bus interface modules, as well as a range of products delivered in neutral version matching most building control OEM requirements.

With more than 20 years experience in the field and as one of the core founders of the KNX standard, we are a competent and reliable partner and deliver full support – from initial information and offers to training and technical support during development phases. We know the requirements and challenges of your location and provide you with the flexible and efficient help required.

Finally, we continue to invest heavily in research and development of new technologies, creating new products and solutions that flow into our B2B portfolio.

The worldwide standard for home and building control





Transceivers

TP-UART 2



The TP-UART 2 is the next-generation KNX transceiver. It is digitally compatible with its predecessor so that communication stacks and drivers can be used without modification. Enhanced features include efficient stabilized 3.3 V or 5 V power supply and a switchable 20 V power supply with reducible current.

Package: QFN 36
Available current: 50 mA at 3.3 V or 5 V* and 25 mA at 20 V

TP-UART



The TP-UART contains the physical coupling to the KNX bus, communicating via a standard UART interface. The TP-UART relieves the microcontroller of bit coding and decoding duties and allows coupling to KNX through different microcontrollers.

Package: SOIC 20
Available current: 10 mA at 5 V

FZE1066



The FZE1066 transceiver offers a bit interface between the KNX bus and the application microcontroller. Designed according the KNX specifications, development using the FZE1066 can be easily certified.

Package: SOP 20
Available current: 30 mA at 5 V, 5 mA at 20 V

Chipsets

Microcontrollers with built-in KNX stack



The 184-series NEC 78F microcontrollers already contain the BCU 2.5 system software certified to the KNX specifications. In combination with the TP-UART, it is the ideal chipset for fast development of KNX applications.

Package: 64-PIN-TQFP (fine pitch) 7x7 mm

KNX microcontroller	Memory available for the internal application program	
	Flash	RAM
184/01	8 KB	200 bytes
184/11	16 KB	1.2 KB
184/21	48 KB	5.2 KB
184/31*	8 KB	200 bytes

* with extended temperature range -25 °C to +70 °C

Bus interface modules (BIM)

BIM M13..-series



The BIM M13..-series is the successor to the widely used M11..-series. It consists of the chipsets (TP-UART + KNX microcontroller) mounted on a printed circuit board with all necessary components. The M13..-series provides state-of-the-art flash technology, enabling the application designer to use modern tools and resulting in shorter development times. The BIM M13..-series contains the BCU 2.5 system software certified to the KNX specifications.

BIM M13..-series	KNX microcontroller	Memory available for the internal application program	
		Flash	RAM
BIM M130	184/01	8 KB	200 bytes
BIM M131	184/11	16 KB	1.2 KB

Finished goods

KNX products in neutral version



In addition to its range of components, Siemens also offers a full range of KNX modules delivered with no logo and in neutral packaging (part number with AA in Siemens Code).

Items available in neutral or customized version include:

- Power supplies
- Line couplers
- Bus coupling units/bus transceiver modules
- Actuators for lighting and shading control
- Push-button interfaces
- Occupancy sensors
- DALI gateways
- USB interfaces
- IP routers/IP gateways
- Thermostats
- Sensors

OEM version of other types of products can also be developed on request.

More information

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* 30 mA only if 20 V output is used in parallel