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

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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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.

www.siemens.com/gamma-b2b

GAMMA B2B
Building control components and finished goods in neutral version
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 reducable current.
Package: QFN 36
Available current: 50 mA at 3.3 V or 5 V* and 25 mA at 20 V

Package: QFN 36
Available current: 50 mA at 3.3 V or 5 V* and 25 mA at 20 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: 10 mA at 5 V

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

Microcontrollers

<table>
<thead>
<tr>
<th>KNX microcontroller</th>
<th>Memory available for the internal application program</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Flash</td>
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<tr>
<td>184/01</td>
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<td>184/11</td>
<td>16 KB</td>
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<td>184/21</td>
<td>48 KB</td>
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<tr>
<td>184/31*</td>
<td>8 KB</td>
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</tbody>
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Bus interface modules (BIM)

BIM M13...-series
The BIM M13...-series is the successor to the widely used M11...-series. It consists of the chips (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.

<table>
<thead>
<tr>
<th>BIM M13...-series</th>
<th>KNX microcontroller</th>
<th>Memory available for the internal application program</th>
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</thead>
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<tr>
<td>BIM M135*</td>
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</table>

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/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
www.siemens.com/gamma-b2b
gamma-b2b.i-bt@siemens.com