

SIM-KNX devices

Serial Interface for KNX

„Connecting different worlds to the KNX“

Our SIM-KNX devices are available with 9 pole RS232- and USB- interface, in two different kinds of enclosures, i.e. desk top and DIN RAIL. The SIM-KNX devices take the pain from integrating audio and video equipment or industrial controller in KNX environment. The ability to translate commands and send predefined strings on commands from the KNX, enables the access to video projectors, high end audio equipment and any kind of industrial controller. The simply structured ASCII commands allow a variety of applications normally not achievable with such minimal effort.

Galvanic isolation, CE marking of the device and the certified KNX communication system make it possible to straightaway generate a data base entry for ETS, register your product and certify it, so you can use the KNX logo on your device (valid for KNX members only).

Unlike our Evaluation Kits, our devices are delivered without extra developer documentation.

The service of generating a data base entry is available at moderate cost.



Simple ASCII connection

Advantages

- Serial interface with ASCII protocol
- On board galvanic isolation (SELV)
- Fully qualified EMC test with CE marking
- Cost effective KNX solutions
- Desk top version with USB or RS232
- Self powered DIN RAIL version with RS232
- Faster time to market
- KNX certified communication system



Technical Information

Application Interface

- ASCII protocol with configurable baud rate and transmission parameters
- Access to group communication and interface objects
- Configurable indications with group communication

Features

- device model 0701
- configuration via ETS database entry or serial interface
- Two different numbers of group objects: 128 or 252

Interoperability mode

- support of KNX data types (EIS / DPT)
- data conversion for group object values (e.g. temperature -> EIS5)
- configurable send conditions for all group communication objects
- indication when data received, value changed, positive/negative edges
- cyclic (time configurable between 3 to 255 sec, 3 to 255 minutes)
- advanced transmit conditions
 - send on value difference
 - receive timeout on received telegrams
 - integrated threshold switch
 - triggers other group object when threshold value was passed

Raw mode

- transparent transmission of the group communication object data
- data conversion not active
- telegram generation triggered via serial interface
- configuration via serial interface

Transparent mode

- bypassing of group communication objects
- sending and receiving on all group addresses, no filtering

Translated commands

- string replacement on receiving from KNX
- pattern replacement on receiving from serial



Application example

