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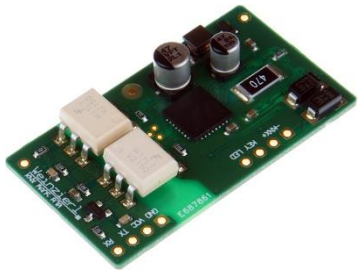
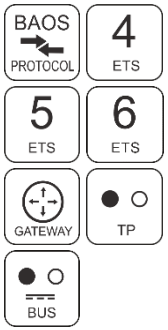
Data sheet

KNX BAOS Module 830

Serial Interface and ObjectServer for KNX Bus





(Art. # 5171)

Application area

KNX BAOS Module 830 serves as a serial interface to KNX. BAOS stands for “Bus Access and Object Server”. So the module allows the access to the KNX bus on telegram level (KNX Link Layer) as well as on data point level (KNX Application Layer). The connection between application and KNX BAOS Module is established via a UART connection (FT1.2 framing).

The module can be used to easily develop KNX devices (e.g. sensor, actuator or gateway) with low investment. It is also an option to add KNX connectivity to existing devices with limited development effort.

For a quick start a generic ETS entry with 1000 group objects is available. Individual ETS entries can be created as well. The KNX BAOS Module 830 is powered via the bus and provides galvanic isolation.

Technical Specification

Electrical safety

- Protection (acc. EN 60529): IP20

Compliant with

- RoHS directive 2011 / 65 / EU
- EN 63000: 2018

Environmental requirements

- Ambient temp. operating: - 5 ... + 45 °C
- Ambient temp. non-op.: - 25 ... + 70 °C
- Rel. humidity (non-condensing): 5 … 93 %

Mechanical data

- Dimensions: (L x W): 44 x 25 mm
- Height: 9 mm (without Pins), Board: 1 mm
- Weight: approx. 6 g

KNX

- Certified KNX Stack (System B)
- Long frames, max. APDU length 55
- Up to 1000 group objects
- Up to 70 kByte parameter space

Power supply

- From KNX bus
- Current consumption 3 mA
- External supply 3.3 - 5 V DC for isolated UART

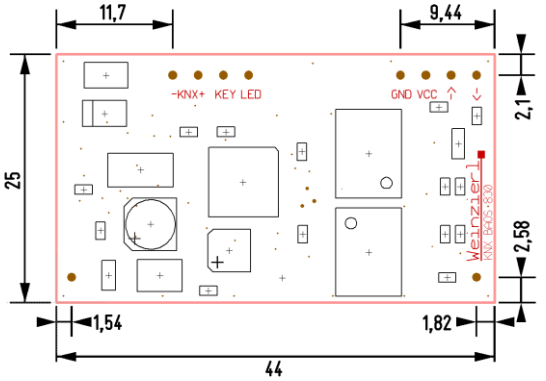
Host Interface

- Baud rate 19.2 / 115 kBit/s, 8e1
- Serial frame format FT1.2
- KNX telegram format: common EMI (cEMI)
- BAOS Protocol V2

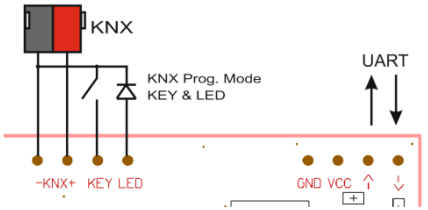
Documentation and Source Code

The complete KNX BAOS Starter Kit documentation, the ETS databases, the source code of the demo application can be found on our BAOS download page at: http://www.weinzierl.de

Dimensions



PIN assignment



- KNX Bus -
- KNX Bus +
- LED for programming mode
- Key for programming mode
- Host interface GND
- Host interface VCC
- Host interface UART TX
- Host interface UART RX

ETS6 Datenbank
www.weinzierl.de/de/products/830/ets6

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