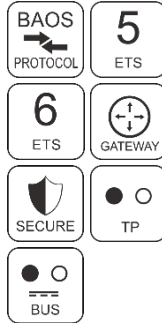


Data sheet

**KNX BAOS Module 830.1 *secure***

Serial interface and ObjectServer for KNX bus



(Art. # 5499)

**Application area**

The KNX BAOS 830.1 *secure* 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.

Power is supplied via the KNX bus. The module supports KNX Security and BAOS Security.

**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 233
- Up to 1000 group objects
- Up to 70 kByte parameter space

Power supply

- KNX bus approx. 4 mA
- External supply 3.3 - 5 V DC for isolated UART

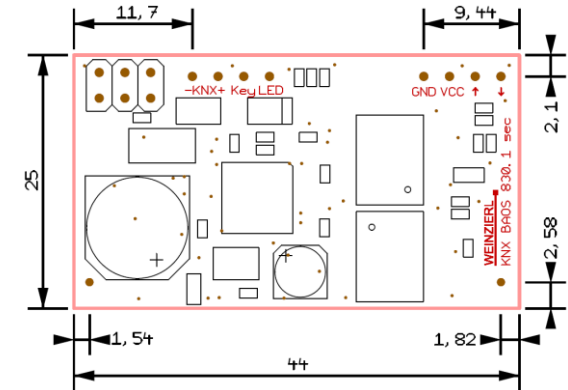
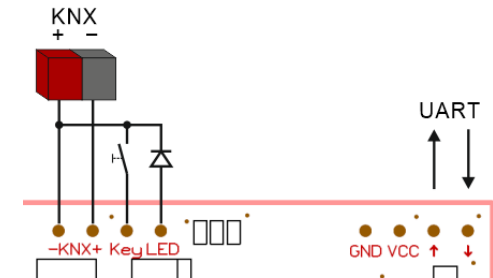
Host Interface

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

**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:

<https://weinzierl.de/en/products/baosv2-modules-start>

**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

Product database for ETS 5/6  
[www.weinzierl.de/de/products/830.1/ets6](https://weinzierl.de/de/products/830.1/ets6)



WEINZIERL ENGINEERING GmbH  
 Achatz 3-4  
 84508 Burgkirchen an der Alz  
 GERMANY

Tel.: +49 8677 / 916 36 - 0  
 E-Mail: [info@weinzierl.de](mailto:info@weinzierl.de)  
 Web: [www.weinzierl.de](http://www.weinzierl.de)