

CAN@net Basic



The Ixxat CAN@net NT Basic with one CAN/CAN FD channel can act as a gateway between CAN FD and Ethernet systems, providing easy and flexible access to the CAN system.

As a CAN-Ethernet-CAN bridge the CAN@net Basic allows the exchange of messages between CAN systems over long distances via UDP/IP, using existing Ethernet infrastructures. The segmentation of CAN systems also increases the reliability and fault tolerance of the entire system. Messages can be processed, filtered and mapped in the gateway.

FEATURES AND BENEFITS

- Easy coupling of CAN/CAN FD systems and devices
- Allows system expansion and tree/star topologies
- 1x CAN/CAN FD channel
- 1x RJ45 Ethernet port, 10/100 Mbit/s
- Line protection by galvanic isolation
- Bridging of large distances with CAN-to-Ethernet-to-CAN
- Filter and ID translation functionality

| | |
|--------------------------|---------------------------------------------------------------------|
| ORDER NUMBER | 1.01.0335.10000 |
| CAN high-speed channels | 1 |
| CAN high-speed interface | Removable push-in connectors |
| CAN high-speed bit rates | 20 to 1000 kBit/s |
| CAN FD bit rates | Arbitration rate: 500 to 1000 kbit/s, data rate: 500 to 8000 kbit/s |
| CAN/CAN FD transceiver | TCAN1044 or compatible |
| Galvanic isolation | CAN: 2.5 kV for 1 minute; Ethernet: 1.5 kV for 1 minute |
| CAN controller frequency | 80 MHz |
| USB interface | USB 2.0 hi-speed (480 Mbit/s), compatible with USB 3.x |
| USB connector | USB-Type C |
| Ethernet protocols | UDP/IP with DHCP, UDP Multicast |
| Ethernet connector | RJ45, twisted pair |
| Ethernet channels | 1 |
| LAN bit rates | 10BASE-T/100BASE-TX (10/100 Mbit/s) |
| ASCII interface mode | all system with UDP/TCP IPv4 support |

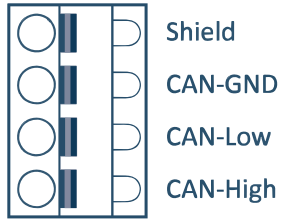
| | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------|
| ORDER NUMBER | 1.01.0335.10000 |
| Power supply | 10-30 V DC |
| Dimensions | 108 x 149 x 27 mm |
| Weight | 127 g |
| Operating temperature | -40°C to +85°C |
| Storage temperature | -40°C to +85°C |
| Protection class | IP20 |
| Relative humidity | 0 to 90 %, non-condensing |
| Certification | CE, FCC |
| Housing material | PC-ABS, UL 94 |
| LED | 1x Power (green), 1x Status/CAN (red/orange/green, SW-controlled), 1x Ethernet (green, LNK/ACT and SW-controlled in RJ45) |
| Operating systems | Operating System for CAN-Gateway Configurator Basic: Windows 11 |



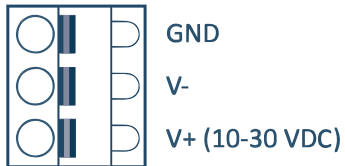
| ACCESSORIES | ORDER NUMBER |
|-----------------------------------------------------------|-----------------|
| Termination adapter for CAN/CAN FD (D-Sub plug to socket) | 1.04.0075.03000 |

PIN ALLOCATION

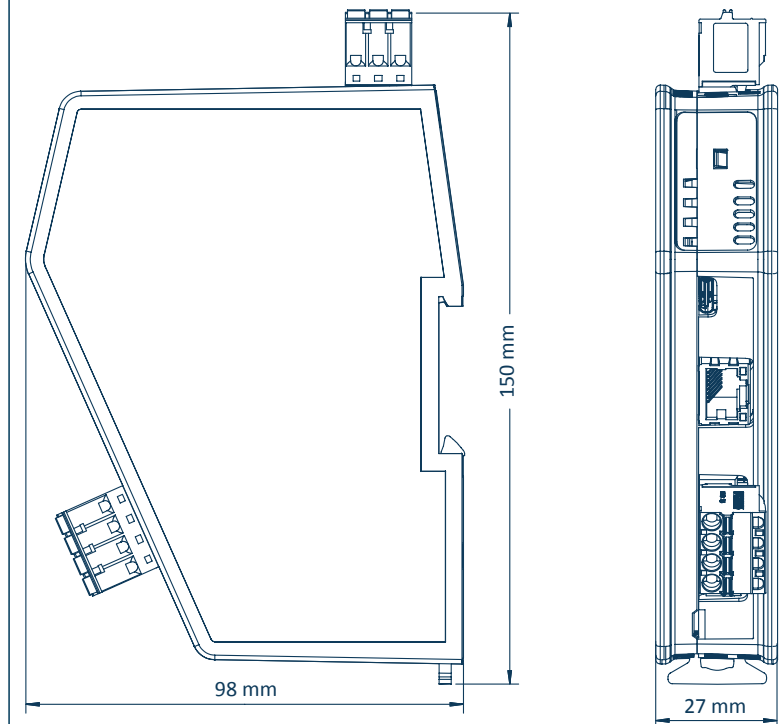
CAN CONNECTOR



POWER CONNECTOR



TECHNICAL DRAWING



SOFTWARE SUPPORT

Drivers and programming interfaces

The Generic Protocol can be used to exchange data between the gateway and computers of any type. It runs on top of UDP/IP. It can be integrated into an application using a simple C API.

Tools

For analysis and configuration HMS offers powerful tools which can be used in combination with the CAN interface. For Windows, the canAnalyser Mini is included in the scope of delivery (part of the driver download package). Further information about the tools as well as Demo/Trial versions are available on the HMS webpage.