

CANbridge NT 200



The CANbridge NT 200 is a CAN to CAN bridge/gateway that can be used to connect two CAN systems and control the message exchange by applying rules and functions to these messages.

It thus also enables easy coupling of CAN networks, conversion of networks with different bit rates or frame formats (11/29 bit identifiers), and manipulation, evaluation, filtering and routing of CAN messages.

It has a powerful microcontroller that can perform message filtering, ID translation and data multiplexing (e.g. required for converting CAN FD to CAN messages) and can also handle bursts with higher data rates without message loss.

FEATURES AND BENEFITS

- Easy coupling of CAN systems and devices
- Allows system expansion and tree/star topologies
- Cost savings due to simple wiring
- Increased system reliability
- Line protection by galvanic isolation
- Powerful filter, ID translation, data mapping and multiplex functionalities
- Execution of pre-defined actions using event-triggered "action rules"
- Windows configuration tool for easy configuration via USB or Ethernet

| ORDER NUMBER | 1.01.0331.20000 |
|------------------------------------|---|
| CAN channels (high speed) | 2 |
| CAN bus interface | CAN high speed according to ISO 11898-2:2016 |
| CAN bit rates | 5 to 1000 kBit/s |
| CAN bus termination resistors | None |
| Galvanic isolation | 1 kV DC for 1 sec |
| Power supply | 9 V to 36 V DC with overvoltage and polarity protection |
| Messages per second (send/receive) | 30000-40000 msg/s |
| USB Interface | Mini USB port to connect the device for configuration. |
| Power consumption at 24 V | Typically 110 mA |
| Power consumption at 12 V | Typically 220 mA |
| Supply voltage | 9 V to 36 V DC with overvoltage and polarity protection |

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|-----------------------|---|
| ORDER NUMBER | 1.01.0331.20000 |
| Weight | Approx. 150 g |
| Dimensions | 114.5 x 99 x 22.5 mm |
| Operating temperature | -40 °C to +85 °C |
| Storage temperature | -40 °C to +85 °C |
| Protection class | IP20 |
| Relative humidity | 10 to 95 %, non-condensing |
| Certification | CE, FCC, UL, UKCA |
| Housing material | Polyamide |
| LED | Status LED, Power LED, CAN 1 LED, CAN 2 LED and User LED; the User LED can be configured with user defined settings via action rules. |
| Operating Systems | Windows 11, Windows 10 (32/64), Windows 8 (32/64), Windows 7 (32/64), Linux |



| ACCESSORIES | ORDER NUMBER |
|---|---------------------|
| Termination adapter for CAN/CAN FD (D-Sub male to female) | 1.04.0075.03000 |
| CAN cable 2.0 m (D-Sub male to female) | 1.04.0076.00180 |
| CAN Y cable 0.22 m | 1.04.0076.00001 |
| CAN Y cable 2.1 m | 1.04.0076.00002 |

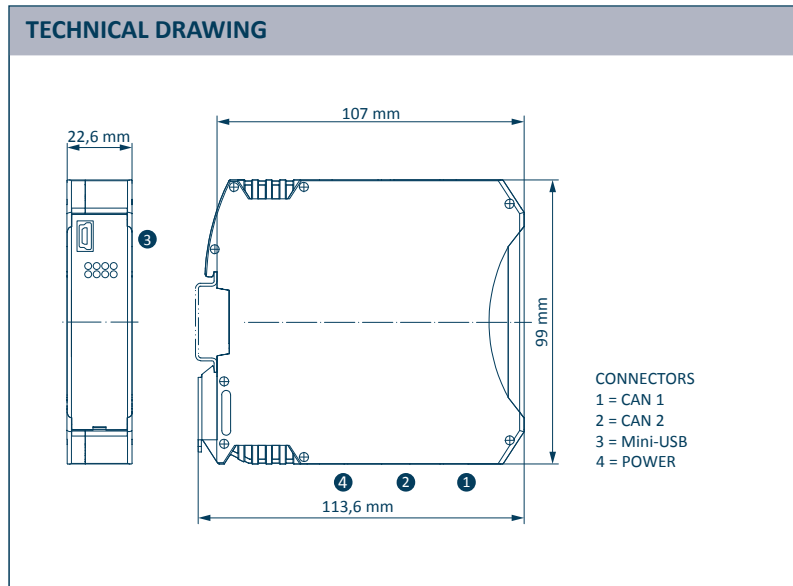
PIN ALLOCATION

CAN CONNECTORS 1 2

| | |
|---|----------|
| 1 | CAN-High |
| 2 | CAN-Low |
| 3 | CAN-GND |
| 4 | Shield |

POWER CONNECTOR 4

| | |
|---|-----------------------|
| 1 | V+ (+9 V to +36 V DC) |
| 2 | V- |
| 3 | PE |
| 4 | PE |



SOFTWARE SUPPORT

The configuration of the CANbridge NT and the firmware upload is done with an intuitive to operate Windows configuration tool via USB. With the tool, the configuration of filter, mapping, multiplexer or translation rules can be carried out very easily, without programming skills.