CANbridge

Configurable CAN-to-CAN Bridge / Router

The CANbridge allows the coupling of two CAN networks, including networks with different bit rates. The bridge/router has a powerful 16-bit microcontroller that can process bursts at higher data rates without message loss. LEDs signal the current status of the coupled networks.

This product is not recommended for new developments. For new developments we recommend to use the successor product Ixxat CANbridge NT 200/420.

FEATURES AND BENEFITS

- Cost savings due to simple wiring
- Allows larger system expansion
- Filter and conversion functionality
- Increased system reliability
- Line protection by galvanic isolation

CONTENTS OF DELIVERY

- CANbridge
- Operation Instruction
- Configuration cable
- Power supply cable (only 1.01.0120.xxxxx)

TECHNICAL SPECIFICATIONS

Microcontroller	Fujitsu MB90F543
CAN controller	2 x CAN on-chip, CAN 2.0A, 2.0B
CAN bus interface	**Industrial Version:** 2x ISO 11898-2 (galvanic isolated) **Automotive Version:** 2x ISO 11898-2 (galvanic isolated) **or** 1x ISO 11898-2 (galvanic isolated) + 1x ISO 11898-3
Serial interface	RS232 for device configuration
Power supply	**Industrial Version**: 9-36 V, 1.5 W, **Automotive Version**: 7-16 V, 1.5 W
Temperature range	-20 ºC ... +70 ºC
Certification	CE
Housing, size	Robust metal housing approx. 100 x 85 x 32 mm

HOW IT WORKS

Unlike a CAN Repeater, which only translates the electric signals, the CAN messages are received completely by the CANbridge and then sent to the other CAN network in line with existing filter and conversion rules (Store-Forward principle). With the aid of conversion rules (gateway tables), CAN messages can be filtered or forwarded under another identifier. With these mechanisms, the bus load can be reduced in the individual networks by only sending messages which are of interest to the other network.

CONFIGURATION

The configuration of the CANbridge can be made using a configuration file, which is uploaded to the device via RS232 by an upload program included in the scope of delivery.

Order number

1.01.0120.22010	CANbridge - **Aluminium**, 2 x High-Speed Bus Interface (galvanic isolated), Automotive Version
1.01.0120.23010	CANbridge - **Aluminium**, 1 x High-Speed Bus Interface (galvanic isolated) + 1 x Low-Speed Bus Interface, Automotive Version
1.01.0120.22020	CANbridge - **Aluminium**, 2 x High-Speed Bus Interface (galvanic isolated), Industrial Version

Accessories

Type	Order number	Product image
Sub-D9 Connector with CAN Termination	1.04.0075.03000	
CAN cable	1.04.0076.00180	
Y CAN cable	1.04.0076.00001	
More accessories and detailed information...		