

CAN-EtherCAT/2

EtherCAT® to CAN Classic Gateway

EtherCAT to CAN CC Gateway as a stand-alone Module Solution

- Seamless connection between EtherCAT® and CAN Classic
- Reducing the data load by filtering CAN messages internally at the gateway
- Balancing different timings between EtherCAT and CAN using RX and TX message queues
- Robust in use thanks to the galvanically isolated CAN port.

User-friendly Configuration

- Simple configuration via EtherCAT MainDevice and standard EtherCAT configuration tools (e.g. esd EtherCAT Workbench)
- EtherCAT SubDevice functionality according to ETG.5001 (CAN Interface - Module Profile No. 5000)

EtherCAT Network Extension

- Connecting Ethernet devices to EtherCAT via Ethernet-over-EtherCAT (EoE) support
- Fast boot time (<1 s) and low power consumption (<2 W) thanks to the optimized selection of components



Linking EtherCAT and CAN CC

The CAN-EtherCAT/2 gateway supports CAN implementations according to ISO 11898-1 and provides seamless connectivity between CAN CC modules and a real-time EtherCAT network. This capability enables the integration of CAN CC devices into an EtherCAT-based automation system and ensures real-time communication and interoperability across different networks

Compliant with the EtherCAT Standard

The gateway operates with EtherCAT SubDevice functionality that is fully compliant with the ETG.5001 (CAN Interface - Module Profile No. 5000), ensuring standardized and efficient integration into EtherCAT networks. The firmware of the device can be updated via FoE.

Ethernet-over-EtherCAT (EoE) Support

Additionally, the module can be configured as an Ethernet switch port using the Ethernet-over-EtherCAT (EoE) protocol. This enables the extension of the EtherCAT network to include standard Ethernet devices, enhancing the network's flexibility and capability.

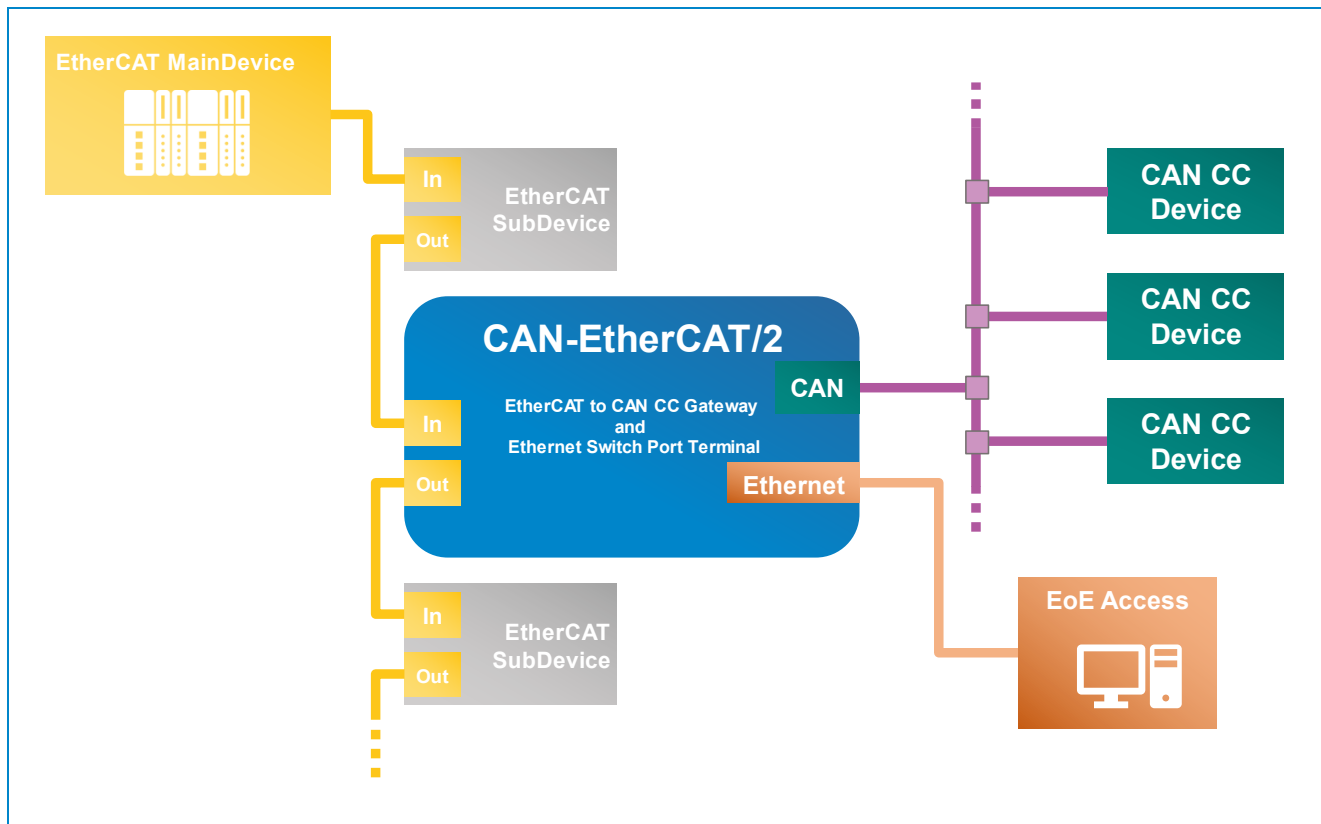
CAN CC Port

The CAN high speed (ISO 11898-2) compatible port allows a maximum data-transfer rate of 10 kBit/s up to 1 Mbit/s. The CAN CC port is connectable either via a pluggable 5-pin PCB terminal block with push-in spring connection or via InRailBus.

Related Products

This Product is designed as a direct replacement for the CAN-EtherCAT (C.2922.02).

Application Example:

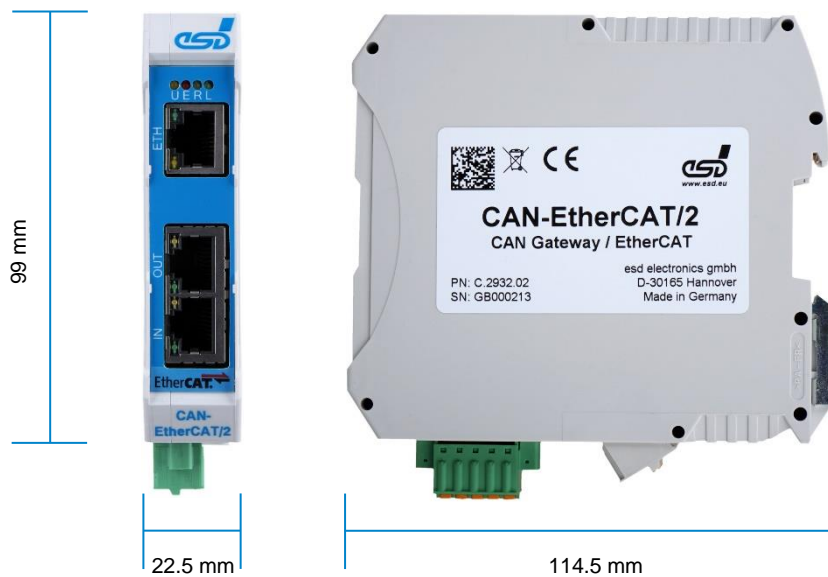


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Housing Details:



Technical Specifications:

Ports:	
CAN port	CAN, 10 kbit/s - 1 Mbit/s, physical layer according to ISO 11898-2, galvanically isolated
EtherCAT SubDevice interface	Dual port RJ45 socket, 100BASE-TX, IEEE 802.3, galvanically isolated
Ethernet port	RJ45, 100BASE-TX, IEEE 802.3, galvanically isolated
General:	
Power supply voltage	16 VDC ... 32 VDC, nominal: 24 VDC
Power consumption	Typical: 1.1 W, maximum 1.68 W
Current consumption	$I_{TYPICAL_24V} = 42 \text{ mA}$, $I_{MAX_24V} = 70 \text{ mA}$
Ambient temperature	-20 °C ... +70 °C
Relative humidity	Max. 90 % (non-condensing)
Dimensions	22.5 mm x 99 mm x 114.5 mm (without mating connectors)
Housing	Plastic housing (Phoenix MEMAX) for hat rail mounting NS 35/7,5 DIN EN 60715
Protection Class	IP20
Connectors	EtherCAT Dual port RJ45 socket Ethernet RJ45 socket CAN: 5-pin PCB header Power: 4-pin PCB header InRailBus: CAN and 24 V power supply optionally connectable via InRailBus card edge connector Use mounting rail connector 5-pos. TBUS connector (accessories).
Weight	Approx. 125 g

Order Information:		
Hardware		Order No.
CAN-EtherCAT/2	EtherCAT to CAN CC Gateway for DIN rail mounting, CAN port according to ISO 11898-2, up to 1 MBit/s, galvanically isolated Pluggable PCB connectors for CAN (FK-MCP 1,5/5-STF-3) and 24 V (FKCT 2,5/4-ST) are included in delivery	C.2932.02
Accessories		
CAN-Cable-S, 0,3m (plug)	CAN-cable 0.3 m, 1x DSUB9 connector with pin contacts	C.1323.03
CAN-Cable-B, 0,3m (socket)	CAN-cable 0.3 m, 1x DSUB9 connector with socket contacts	C.1323.04
CAN-CBX-TBUS	InRailBus connector	C.3000.01
CAN-CBX-TBUS-Connector-Socket	Connector for power supply and CAN to the InRailBus (socket contacts)	C.3000.02
CAN-CBX-TBUS-Connector-Plug	Connector for power supply and CAN to the InRailBus (pin contacts)	C.3000.03
Software Support		
esd EtherCAT Workbench License		P.4510.01
Related Products		
		Order No.
CAN-EtherCAT/2-FD	EtherCAT to CAN FD Gateway As C.2932.02 but with CAN FD port	C.2932.62