

CANnector SE



The Ixxat CANnector SE is a versatile communication platform with many different interfaces, including EtherCAT. It seamlessly integrates several bus systems into a single device – ideal for logging and gateway applications.

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This intelligent device operates independently, only requiring a PC for initial configuration or data visualization. The core capabilities, such as transport protocols, are outsourced to the platform to free up PC resources. By combining various functionalities, interfaces and expansion options, the CANnector offers an adaptable solution that can be tailored to a wide array of customer-specific applications.

The Advanced Configuration Tool (ACT) allows for easy device configuration via drag-&-drop, addressing most use cases with its freeware version.

FEATURES AND BENEFITS

- Multi-connectivity device with 6 x CAN channels, thereof 2 x switchable to CAN FD
- Supports EtherCAT (slave), Ethernet, LIN, Digital in/out (A/E), USB 2.0 device and USB 2.0 host
- Supports CAN listen only (CAN RX) for data logging use-cases
- High data throughput combined with low latency
- Extensive filter and mapping options
- Easy cloud connection
- Supports standalone operation
- Flexible access via USB and LAN
- User-friendly plug-&-play device with custom configuration options
- Galvanic isolation up to 2 kV
- DIN rail mountable

ORDER NUMBER	1.01.0091.00100
CAN FD/CAN channels	6
CAN bus interface	4 x D-Sub 9, CiA standard pinning according to CiA 303-1
CAN bus termination resistors	CAN/CAN FD: none
Galvanic isolation	up to 2 kV DC for 1 sec.
LIN channels	2
Ethernet interfaces	1
Ethernet connector	3 x RJ45 (1 x Ethernet 10/100 Base-T, 2 x fieldbus)
EtherCAT (slave)	Yes. Connector X6 provides EtherCAT-Slave-OUT and X7 provides EtherCAT-Slave-IN functionality.
USB interface	1 x Mini USB device interface, 2 x USB 2.0 host interface (480 Mbit/s)
USB connector	1 x Mini USB, 2 x USB Type-A
USB 2.0 host	2
Host system	Power PC, 256 MByte RAM, 256 MByte Flash
Power supply	6 to 36 V DC (via WPG connector)
Power consumption	420 mA (12 V DC), sleep mode: 7.5 mA (12 V DC)
Weight	Approx. 790 g
Housing material	Aluminum, stainless steel
Dimensions	196 x 113 x 43 mm
Operating temperature	-40 °C to +80 °C
Storage temperature	-40 °C to +85 °C
Protection class	IP40
Relative humidity	10-95 %, non-condensing
LED	8 x LEDs, of which 7 are freely configurable
Certification	CE



ACCESSORIES	ORDER NUMBER
Power cable for CANnector	1.04.0089.00002
CAN/LIN/K-Line Breakout Cable (1.5 m)	1.04.0089.00200
Double CAN Cable	1.04.0089.00201
USB WiFi Extension	1.04.0143.00000
CAN cable 2.0 m (D-Sub plug to socket)	1.04.0076.00180

PIN ALLOCATION

Field Bus Interfaces



- X1** CAN high-speed,
CAN FD (only CANnector L, LA, LE),
LIN
- X2** CAN high-speed,
CAN FD (only CANnector L, LA, LE),
Digital I/O 1
- X3** CAN high-speed, CAN FD, LIN
- X4** CAN high-speed, CAN FD,
Digital I/O 2

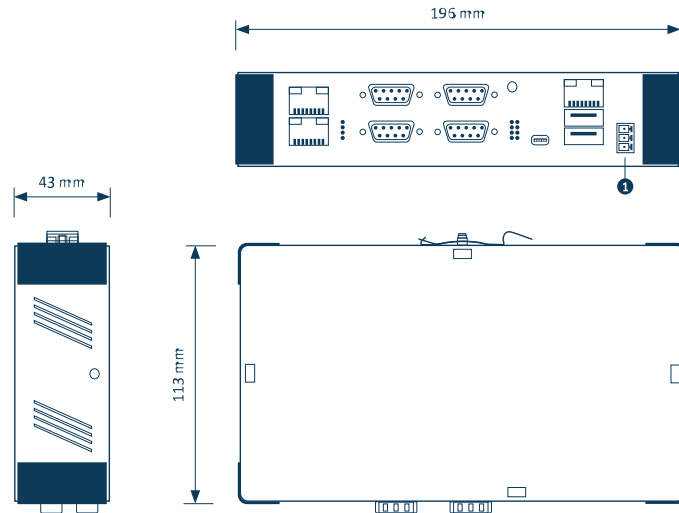
EtherCAT Interfaces (only selected variants)



- X6** EtherCAT-Slave-OUT
- X7** EtherCAT-Slave-IN

The detailed pin allocation is dependent on the device variant. Further information can be found in the user manual.

TECHNICAL DRAWING



SOFTWARE SUPPORT

The CANnector provides various possibilities to manage configurations. HMS provides with Ixxat ACT (Advanced Configuration Tool) an easy to use Windows-based tool enabling customers to configure the device via drag-&-drop. Most use-cases can be solved by using ACT Freeware.

Dashboard

With the dashboard, that is accessible via the IP address and a web browser, the state of the CANnector and the connected bus systems can be monitored, the different basic configurations can be selected and downloaded to the device, and data can be visualized.

ACT Tool

The engineering tool ACT is Windows based and allows the easy creation of configurations via drag and drop. The ACT tool provides further configuration possibilities (e.g. forwarding individual signals, changing message ID and content).

IxAdmin

IxAdmin is included in the ACT. With IxAdmin the different basic configurations can be selected, started and stopped and downloaded to the device. Changing baud rate settings is also possible as well as updating the firmware and managing the connected devices.