Ixxat CANnector SE



Configurable automotive platform (1x EtherCAT, 6x CAN, thereof 2x CAN FD)

Item number: 1.01.0091.00100

The Ixxat CANnector SE is a powerful platform, ideally suited for e-mobility and automotive applications by merging multiple bus systems into a single device. It features two LIN, two Digital in/out and six CAN channels, two of which are CAN FD capable, including Industrial Ethernet support. Configuration is easily done with the Ixxat Advanced Configuration Tool (ACT).

Features and benefits

Go-to solution for demanding network requirements

Enables easy integration of multiple bus systems into a single, DIN rail mountable device. This is essential for e-mobility projects and complex industrial applications.

Multi-connectivity with various interfaces

Additional interfaces included: 2 x LIN, 1 x Ethernet (10/100 Base-T), 2 x Digital in/out (A/E), 1 x USB 2.0 device and 2 x USB 2.0 host. Further extension options are available.

Embedded platform with own processing power

All applications run on the device, a PC is only needed for configuration or stimulation/visualization of data, as the actual intelligence is outsourced to the embedded platform.

Quick and easy configuration through ACT support

The CANnector series is supported by the Ixxat ACT (Advanced Configuration Tool), a Windows-based tool to easily configure the device via drag and drop. Most use cases can be solved by using ACT Freeware.

Extensive CAN connectivity

The CANnector SE features six CAN channels, two of which are CAN FD capable, catering extensive connectivity for a wide range of automotive applications.

Improved data management for efficient engineering

Streamlines data management and protocol handling, optimized for automotive testing, logging and gateway operations. Ensuring easy integration and reliable performance.

Overvoltage protection

Galvanic isolation up to 2 kV safeguards against overvoltage and protects from potential electrical damage.

Ixxat CANnector SE



General

Net Width (mm)	113
Net Height (mm)	196
Net Depth (mm)	43
Net Weight (g)	1150
Packed Weight (g)	1150
Operating Temperature °C Min	-40
Operating Temperature °C Max	80
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Relative Humidity	10 to 95 %, non-condensing
Current Consumption Type Value at Vcc Nom (mA)	420 mA (12 V DC)
Input Voltage (V)	6 V to 36 V DC
Power Connector	3-pole
Isolation	The CANnector features four interface islands (X1, X2, X3, X4), each galvanically isolated from the others with up to 2 kV DC. Within each island, interfaces for CAN FD, CAN high-speed, digital I/O, and LIN are interconnected. The shielding of the cable and/or the metal collar of a D-Sub connector is directly connected to the housing.
Isolation Voltage (kV)	2 kV DC for 1 sec.
Configuration	The Ixxat CANnector is a Linux platform that is able to work standalone without any connected PC. For the standalone function a configuration is needed, that can be created and downloaded to the device via the PC based Ixxat Automotive Configuration Tool (ACT) and an USB connection.
Content of Delivery	CANnector device, user manual, adhesive device feet, power supply connector, USB cable (2 m, Type A to Mini Type B), Ethernet cable (2 m), available as download: Advanced Configuration Tool (ACT)
Mounting	DIN rail mount (bracket included)
Housing Materials	Aluminium, Steel

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General

Packaging Material	Cardboard

Identification and Status

Product ID	1.01.0091.00100
Country of Origin	Germany
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

Physical Features

Connectors / Input / Output	4 x D-Sub 9 connectors, 2 x USB type A ports, 1 x Mini USB port, 3 x RJ45 connectors (1 x Ethernet, 2 x fieldbus), 1 x WPG connector (power)
Contains Battery	No

CAN Features

CAN Transceiver	TI SN65HVD251

CAN FD Features

CAN FD Transceiver	MCP2562FD

LIN Features

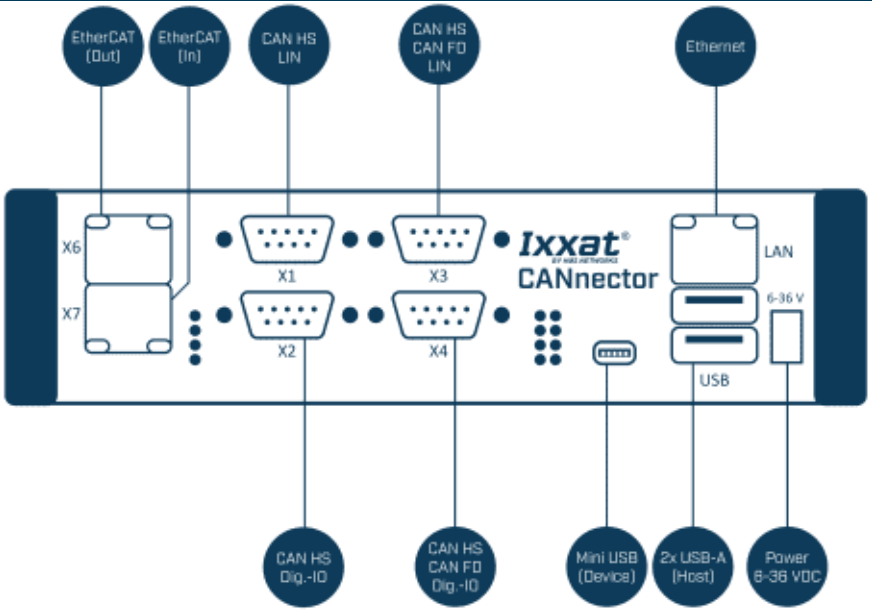
LIN Transceiver	MCP2003B-E/MC

Certifications and Standards

Protection Class IP	IP40
CE	Yes
WEEE Category	IT and telecommunications equipment



Use Case


EtherCAT (Out)
EtherCAT (In)
CAN HS LIN
CAN HS CAN FD LIN
Ethernet
X6
X7
X1
X2
X3
X4
Ixxat
CANnector
LAN
6-36 V
USB
CAN HS Dig.-IO
CAN HS CAN FD Dig.-IO
Mini USB (Device)
2x USB-A (Host)
Power 6-36 VDC