Ixxat CANnector Range

Item number: 1.01.0091.02000

The Ixxat CANnector Range simplifies complex automotive tasks by enabling the setup of range extending applications via Ethernet without time consuming configuration. It offers easy integration of bus systems with two LIN, two Digital in/out, and six CAN channels, two of which are CAN FD capable. Configuration is easily done with the Ixxat Advanced Configuration Tool (ACT).

Preconfigured automotive platform (6x CAN, thereof 2x CAN FD)

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.

Extensive CAN connectivity

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

Ready-to-use with preconfigured Range-variant

On the CANnector Range variant, the basic configurations for transferring data of the connected buses over longer distances are already loaded on the device. For fast and easy setup.

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.

Compatibility with advanced standards

Supports Industrial Ethernet, facilitating high-speed data transfer and network integration for complex applications – especially suited for e-mobility and varied industrial projects.

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.

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.

Support for Linux and QNX

Using the free ECI driver package, the hardware can be easily integrated into Linux-based environments as well as into applications under the QNX real-time operating system. 32- and 64-bit ARM (Raspberry Pi) and Intel X86 platforms are supported.

Ixxat CANnector Range

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 Range is preconfigured and can be used directly without further configuration. For additional configuration (via USB connection), Ixxat offers the Advanced Configuration Tool (ACT). It's is a user-friendly, Windows-based tool for configuring devices via drag-and-drop and other features like signal forwarding and message modification. It includes IxAdmin for selecting, starting, and downloading basic configurations or firmware to the device. With a separate Dashboard, accessible via IP address and web browser, monitoring of the CANnector Range and connected bus systems, downloading configurations, and data visualization is possible.
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

Ixxat CANnector Range

General

Packaging Material	Cardboard

Identification and Status

Product ID	1.01.0091.02000
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
ETIM Classification	EC001604
CE	Yes
TELEC	No
WEEE Category	IT and telecommunications equipment