

## Ixxat CANnector L

Item number: 1.01.0091.00010

The Ixxat CANnector L is a powerful platform for automotive engineering and testing applications, integrating multiple bus systems for efficient logging and gateway operations. It features two LIN, two Digital in/out and eight CAN channels, four of which are CAN FD capable. Configuration is easily done with the Ixxat Advanced Configuration Tool (ACT).



*Configurable automotive platform (8x CAN, thereof 4x 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.
- ✓ **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 L features eight CAN channels, four 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.



| 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                                                                                                                                                                                                                                                                                                                                 |



## General

|                    |           |
|--------------------|-----------|
| Packaging Material | Cardboard |
|--------------------|-----------|

## Identification and Status

|                                             |                 |
|---------------------------------------------|-----------------|
| Product ID                                  | 1.01.0091.00010 |
| 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 |



## Use Case

