

Ixxat USB-to-CAN V2 automotive

Item number: 1.01.0283.22042

The Ixxat USB-to-CAN V2 automotive is an easy, versatile and cost-efficient way to connect computers to fieldbus networks, enabling seamless integration into diverse industrial setups and various CAN applications. It offers two switchable CAN interfaces, one of which can be switched to CAN low-speed, and a LIN interface, each galvanically isolated.



PC interface adapter (2 x CAN, LIN), galv. isolated

Features and benefits

- ✓ **Versatile connectivity for CAN-based networks**
Simplifies the connection of computers to CAN-based networks by providing versatile integration options for industrial and automotive applications.
- ✓ **Dual CAN connection**
Equipped with two CAN channels on RJ45 connectors, establishing a connection to up to two independent CAN bus systems.
- ✓ **High-speed USB connectivity**
Native USB 2.0 hi-speed (480 MBit/s) ensures fast data transfer and compatibility with USB 1.1 and USB 3.x.
- ✓ **Efficient data handling**
Offers high data throughput combined with minimal latency, ensuring prompt and efficient data processing for demanding needs.
- ✓ **Comprehensive driver compatibility**
Ixxat VCI driver packages support multiple fieldbuses and allow easy switching between different PC interface types. Available as free download.
- ✓ **Analysis software included**
Ixxat canAnalyser3 Mini is included in the VCI V4 download package and enables first steps in analyzing and monitoring CAN networks.
- ✓ **Cost-effective connectivity**
Offers a cost-effective solution, delivering high performance at an economical price. Ideal choice for demanding applications, without having to compromise on quality.
- ✓ **Multiprotocol support**
Supports CAN high-speed, CAN low-speed and LIN, offering a variety of connection options and flexibility for future requirements.
- ✓ **High-precision timestamps**
High-precision on-board time-stamping allows for precise data tracking and monitoring.
- ✓ **Overvoltage protection**
Galvanic isolation safeguards against overvoltage and protects from potential electrical damage.
- ✓ **Powerful programming interface**
Ixxat offers versatile programming interfaces for Windows (VCI), Linux (ECI) and real-time OS (on request), enabling flexible development across multiple operating systems.
- ✓ **Adapter cables included**
Comes with two RJ45 to 9-pin D-Sub adapter cables for a quick and easy CAN connection.



Identification and Status

| | |
|---|-----------------|
| Product ID | 1.01.0283.22042 |
| Country of Origin | Sweden |
| HS Code | 8517620000 |
| Export Control Classification Number (ECCN) | EAR99 |

General

| | |
|--|----------------------------|
| Net Width (mm) | 50 |
| Net Height (mm) | 80 |
| Net Depth (mm) | 22 |
| Net Weight (g) | 157 |
| Packed Width (mm) | 14 |
| Packed Height (mm) | 4 |
| Packed Depth (mm) | 18 |
| Packed Weight (g) | 295 |
| Operating Temperature °C Min | -20 |
| Operating Temperature °C Max | 70 |
| 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) | 48 mA |
| Current Consumption Max value at Vcc nom (mA) | 300 mA (5 V DC) |



General

| | |
|-----------------------------------|---|
| Input Voltage (V) | 5 V DC via USB port |
| Power Connector | USB |
| Isolation | 1 kV DC for 1 sec., 500 V AC for 1 min. |
| Content of Delivery | USB-to-CAN V2 interface, user manual, 2 x CAN adapter cable (20 cm, RJ45/Sub-D9 connector), available as free download: CAN driver VCI, simple CAN monitor "canAnalyser Mini", programming examples |
| Not Included (in delivery) | Comprehensive and powerful driver and software packages are available as free download |
| Housing Materials | PC ABS, UL 94 VO |
| Packaging Material | Cardboard |
| Warranty (years) | 1 |

Physical Features

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|------------------------------------|--|
| Connectors / Input / Output | 2 x RJ45 connector, 1 x USB type A connector |
|------------------------------------|--|

CAN Features

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|------------------------|---|
| CAN Mode | CAN high-speed (ISO 11898-2: 2016), CAN low-speed (ISO 11898-3) |
| CAN Transceiver | TI SN65HVD251 |
| CAN Controller | CAN 2.0 A/B |
| CAN Baud Rate | CAN high-speed: 10 kBit/s to 1 MBit/s, CAN low-speed: 10 kBit/s to 125 kBit/s |

LIN Features

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|------------------------|--|
| LIN Mode | LIN V1.3 and V2.0/2.1, commander/responder mode and LIN frame format switchable via software |
| LIN Transceiver | TJA1020 |
| LIN Baud Rate | max. 20 kBit/s |

Certifications and Standards

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|----------------------------|-------------------------------------|
| Protection Class IP | IP40 |
| ETIM Classification | EC000515 |
| WEEE Category | IT and telecommunications equipment |