Ixxat USB-to-CAN FD automotive

Item number: 1.01.0353.22012

The Ixxat USB-to-CAN FD 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/CAN FD interfaces and one LIN interface, each galvanically isolated.



PC interface adapter (2 x CAN FD, 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.

Powerful CAN FD connection

Equipped with two CAN FD channels (up to 8 Mbits) via RJ45 sockets for rapid and reliable data communication in CAN/CAN FD networks.

High-speed USB connectivity

Native USB 2.0 hi-speed (480 MBit/s) ensures fast data transfer and compatibility with 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 FD, CAN high-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.

Ixxat USB-to-CAN FD automotive



General

Net Width (mm)	50
Net Height (mm)	80
Net Depth (mm)	22
Net Weight (g)	156
Packed Width (mm)	14
Packed Height (mm)	4
Packed Depth (mm)	18
Packed Weight (g)	298
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 %, no condensation
Current Consumption Type Value at Vcc Nom (mA)	32 mA
Current Consumption Max value at Vcc nom (mA)	300 mA (5 V DC)
Input Voltage (V)	5 V DC via USB port
Power Connector	USB
Isolation	800 V DC/ 500 V AC for 1 min.
Content of Delivery	USB-to-CAN FD 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

Ixxat USB-to-CAN FD automotive



General

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

Identification and Status

Product ID	1.01.0353.22012
Country of Origin	Germany
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN) (Applies only to the U.S)	EAR99

Physical Features

Connectors / Input / Output	2 x RJ45 connector, 1 x USB type A connector
Contains Battery	No

CAN Features

CAN Mode	CAN high-speed (ISO 11898-2: 2016)
CAN Controller	IFI CAN_FD IP/80 MHz
CAN Baud Rate	10 kbit/s to 1 Mbit/s

CAN FD Features

CAN FD Mode	ISO CAN FD (ISO 11898-1: 2015), nonISO CAN FD
CAN FD Transceiver	MCP2562FDT
CAN FD Baud Rate	Arbitration rate up to 1000 kBit/s, data rate up to 8000 kBit/s (verified by testing). User defined bit rates are possible.

LIN Features

LIN Mode	LIN V1.3 and V2.0/2.1, commander/responder mode and LIN frame format switchable via software
LIN Transceiver	TJA1020

Ixxat USB-to-CAN FD automotive



LIN Features

LIN Baud Rate	max. 20 kBit/s

Certifications and Standards

Protection Class IP	IP40
Product Certifications	CE, FCC, UKCA
WEEE Category	IT and telecommunications equipment