

## 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.



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



## 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)	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



## LIN Features

LIN Baud Rate	max. 20 kBit/s
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## Certifications and Standards

Protection Class IP	IP40
ETIM Classification	EC000515
CE	Yes
FCC	Yes
UKCA	Yes
TELEC	No
WEEE Category	IT and telecommunications equipment