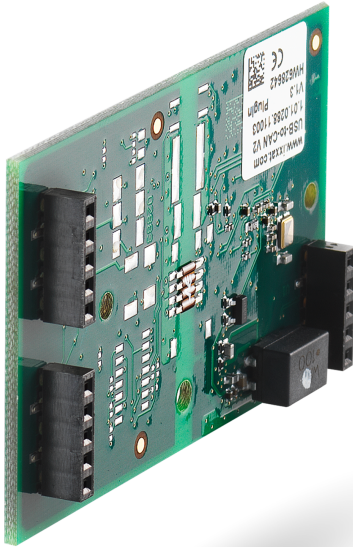


USB-to-CAN V2 Plugin



The USB-to-CAN V2 Plugin with two CAN channels and galvanic isolation enables the simple and fast implementation of a CAN interface into customer devices. At this, it is especially suitable for applications with limited space thanks to its compact dimensions. Due to its attractive price and compact design, the USB-to-CAN V2 Plugin interface is ideally suited for use in series production.

The Ixxat USB-to-CAN V2 Plugin is based on the latest USB-to-CAN V2 family. The interface has the same characteristics as the other USB-to-CAN V2 variants and is fully supported by the Ixxat driver packages for Windows (VCI) and Linux (ECI).

FEATURES AND BENEFITS

- Cost-effective, versatile and extremely reliable
- Compact design for efficient space utilization
- High-precision time-stamp accuracy
- High data throughput combined with low latency
- Native USB 2.0 hi-speed (480 Mbit/s), compatible with USB 1.1 and USB 3.x
- 2 x high-speed CAN connection up to 1 Mbit/s
- Galvanic isolation
- Common driver interface for easy exchange of the PC interface type
- Powerful programming interface for Windows (VCI) as well as for Linux (socketCAN or ECI), QNX and VxWorks (ECI)

ORDER NUMBER	1.01.0288.22003
CAN channels (high-speed)	2
CAN bus interface	Single row female header; 2.54 pitch
CAN bit rates	10 kbit/s to 1 Mbit/s
CAN bus termination resistors	-
CAN controller	Internal; CAN 2.0 A/B
CAN high-speed transceiver	SN65HVD251D
Galvanic isolation	1000 V DC for 1 sec., 500 V AC for 1 min.
USB interface	USB 2.0 hi-speed (480 Mbit/s), compatible with USB 1.1 and USB 3.x
USB connector	Single row female header; 2.54 pitch
Microcontroller	32 Bit

ORDER NUMBER	1.01.0288.22003
RAM	136 kByte
Flash	512 kByte
Power supply	+5 V DC/300 mA (via USB port)
Power consumption	Max. 300 mA
Dimensions	67.5 x 40 x 9.2 mm
Weight	Approx. 15 g
Operating temperature	-40 °C to +85 °C
Storage temperature	-40 °C to +85 °C
Relative humidity	10 to 95 %, non-condensing
Certification	CE, FCC, UKCA
LED	3 x LEDs for CAN 1, CAN 2 and USB communication
Operating systems	Windows 11, Windows 10 (32/64), Windows 8 (32/64), Windows 7 (32/64), Linux

CERTIFICATES


ACCESSORIES	ORDER NUMBER
Termination adapter for CAN/CAN FD (D-Sub plug to socket)	1.04.0075.03000
CAN cable 2.0 m (D-Sub plug to socket)	1.04.0076.00180
CAN Y cable 0.22 m	1.04.0076.00001
CAN Y cable 2.1 m	1.04.0076.00002

PIN ALLOCATION

CAN CONNECTOR ❶

	Pin no.	Signal
❶	1	CAN-High HS
❷	2	CAN-Low HS
❸	3	CAN-GND
❹	4	-
❺	5	-

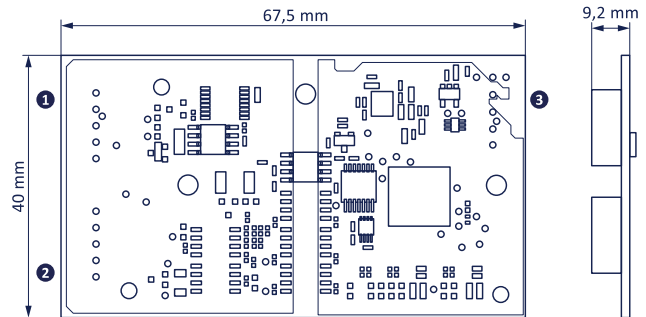
CAN CONNECTOR ❷

	Pin no.	Signal
❶	1	CAN-High HS
❷	2	CAN-Low HS
❸	3	CAN-GND
❹	4	-
❺	5	-

USB CONNECTOR ❸

	Pin no.	Signal
❶	1 Red	+5 V/voltage+/VCC
❷	2 White	D-/data-/USB-
❸	3 Green	D+/data+/USB+
❹	4 Black	GND/voltage-/ground
❺	5 Black	S-GND/over current/shielding

TECHNICAL DRAWING



CONNECTORS

- 1 = CAN 1
- 2 = CAN 2
- 3 = USB

SOFTWARE SUPPORT

Drivers and programming interfaces

Comprehensive and powerful driver and software packages for the USB-to-CAN V2 Plugin series are available for free at ixxat.com/support. The driver packages can be downloaded for Windows (VCI - Virtual Communication Interface) and Linux (ECI), and are available on request for various real-time operating systems (INtime, RTX, Vxworks, QNX).

Using the Ixxat driver packages, customers can easily switch between the different PC interfaces offered by HMS. This would allow them to use USB, PCIe, Ethernet or other PC connections without changes to their application. The drivers support all protocols available on the interface with one API, so customers can easily access CAN, CAN-FD and LIN simultaneously and get the data with a common time stamp.

Softwaretools

The software tool canAnalyser3 Mini is included in the VCI V4 download package and enables the first analysis steps and monitoring in CAN networks. Further information about the tools as well as Demo/Trial versions are available on the [Ixxat](http://ixxat.com) webpage.