USB-to-CAN V2

Variants

The USB-to-CAN V2 is available in different variants. In the USB-to-CAN V2 compact variant, the CAN connection is implemented as a D-SUB 9 plug or alternatively as an RJ45 connector. For devices with two CAN interfaces, these are implemented as RJ45 connectors. Adapter cables to sub-D9 plugs are included with the devices.

The IXXAT USB-to-CAN V2 embedded is designed without a housing, with or without a slot board and adapted USB cable for installation into a computer.

Additional options include galvanically isolated CAN interfaces, bulk variants, and support for ISO 11898 -3 low-speed CAN and LIN.

LIN (automotive variant)

LIN communications are supported in either LIN master or LIN slave mode. As LIN slave, the interface responds automatically to master requests it receives. The response data is updated through the PC API using a buffer. In master mode, the master calls are processed by the PC application. Incoming LIN messages are forwarded to the application with a timestamp, master request, response, and status information.

Technical specifications

PC bus interface	USB 2.0, Hi-Speed
Microcontroller	32 bit
CAN controller	Internal; CAN 2.0 A/B
CAN baudrates	10 kBit/s ... 1 Mbit/s
CAN high-speed transceiver	TI SN65HVD251D
CAN low-speed transceiver (1)	TJA1055T
LIN transceiver	TJA1020
LIN protocol	V1.3 and V2.0
LIN baudrate	max. 20 kBaud
Galvanic isolation	optional, 1 kV, 1 sec.
Power supply	5 V, max. 500 mA via USB port
Temperature range	-20°C ... 70°C
Fieldbus connection	according to CiA 303-1
Certification	CE, EN 55022:2010, EN61000-6-1:2007