

CAN-USB/Micro

Small CAN USB Interface in DSUB9 Enclosure

CAN Network at USB 2.0 Full-Speed

- USB 2.0 full-speed device with data rates of 12 Mbit/s
- Differential CAN interface, 1 Mbit/s, ISO 11898-2)
- Powered via USB
- ARM® Cortex®-M3 Microcontroller
- Time stamped CAN messages with a resolution of 1 μ s

Robust Metal Case with Status LEDs

- Die-cast housing, dimensions 35 mm x 15 mm x 45 mm
- Two LEDs show the state of the module
- USB cable included
- Available in variants with and without UNC 4-40 threaded inserts

Wide Range of Application

- Silent mode support for analyzing tools
- Full compatibility with applications written for esd's NTCAN-API
- CANopen® and J1939 protocol libraries are available
- Firmware can be updated in the field



CAN-USB/Micro

Low-cost CAN Interface for PC

The CAN-USB/Micro is a very small CAN-USB interface that fits into a DSUB9 enclosure. The ARM Cortex-M3 micro controller handles CAN data. The non-isolated CAN interface is supplied directly via USB. The CAN-USB/Micro-TI variant comes with two threaded inserts UNC 4-40.

USB Device

The CAN-USB/Micro module supports the USB 2.0 full-speed interface with data rates of up to 12 Mbit/s.

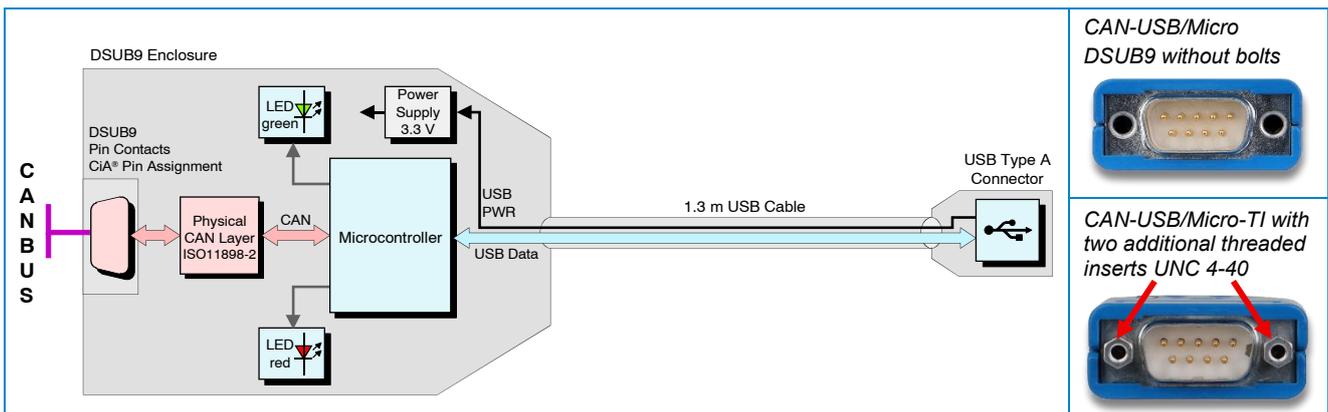
Software Support

esd offers the sophisticated NTCAN-API for accessing the CAN bus via the CAN-USB/Micro, which provides extensive functions for optimum use of the CAN bus. Device drivers and the NTCAN-API for Windows® are included. Linux® (kernel \geq 5.19) is supported via Linux CAN (SocketCAN) and NTCAN wrapper library.

For Windows there are additional free esd CAN tools (e.g. the interactive CAN bus analysis tool CANreal), that can be downloaded from our website. The tools enable efficient configuration and analysis of CAN applications and networks.

CAN-based Protocols

In addition, esd offers protocol stacks based on the NTCAN API for easy integration of CANopen, and J1939. For more information, please ask our sales team.



CAN-USB/Micro DSUB9 without bolts



CAN-USB/Micro-TI with two additional threaded inserts UNC 4-40



Technical Specifications:

CPU	
Controller	ARM-Cortex-M3, 32-bit, 72 MHz
USB	
USB device	USB 2.0, full-speed 12 Mbit/s
Connector	1x USB Type-A
CAN:	
CAN controller	ISO 11898-1, integrated in microcontroller
CAN interface	ISO 11898-2, high-speed, bit rate up to 1 Mbit/s, without galvanic isolation
Connector	DSUB9 (pin contacts), CAN port integrated in DSUB9-enclosure CAN-USB/Micro-TI only: DSUB connector with threaded inserts UNC 4-40
General:	
Power supply	Via USB: 5 VDC \pm 20 %
Current	Typical current consumption (at 5 V): I = 50 mA
Ambient temp.	0 °C ... +50 °C
Rel. humidity	Max. 90 % (non-condensing)
Dimensions	Cable length: 1.3 m including connectors DSUB9: 35 mm x 15 mm x 45 mm
Weight	ca. 110 g

Order Information:

Hardware		Order No.
CAN-USB/Micro	Intelligent CAN interface inside DSUB9 connector for USB CAN according to ISO 11898-1, USB 2.0 device (full-speed)	C.2068.02
CAN-USB/Micro-TI	Intelligent CAN Interface inside DSUB9 connector for USB, with threaded insert UNC 4-40, CAN according to ISO 11898-1, USB 2.0 device (full-speed)	C.2068.03

Device drivers for [Windows](#) and [Linux](#) are included in delivery free of charge and can be downloaded from our website.

Software Support

CANopen object licences including CD-ROM:	
CANopen Software Stack for Windows	C.1101.06
J1939 Stack object licenses including CD-ROM:	
J1939 Stack for Windows	C.1130.10
J1939 Stack for Linux via Linux CAN (SocketCAN) and NTCAN wrapper library	C.1130.11

For detailed information about driver availability for your operating system please visit the [product page](#) or contact our [sales team](#).