

CW-101

CAN-USB-INTERFACE



The module CW-101 extends our range of products in the field of bus technology. This module makes it possible to connect a CAN bus to a PC, via an USB interface, quickly and easily. It is designed for applications in automation technology, robotics, test benches and as well for automotive and commercial vehicle industry. This module offers the user a simple and cost-effective CAN interface – without the need to install a driver.

The CAN USB adapter CW-101 implements the ISO Standard 11898-2 (high speed CAN) with data transmission rates from 125 kbit/s up to 1 kbit/s. In addition, data transmission rates, more frequently used in automation, of 20, 50 and 100 kbit/s are supported, too. Both CAN identifiers 11 bit and 29 bit can be evaluated.

In conjunction with the software CW-968, the CAN-USB-interface not only facilitates simple data logging and analysis, but also targeted (synchronized) transmissions of single CAN messages. Direct support for the widely used CANdb data format (DBC) is optional available.

The standard connection between the CAN bus adapter and the CAN bus is achieved by means of a D-Sub 9 connector. A special CAN mini USB connector is also available for our CW-200 series, used to monitor machine and plant applications – other optional cable and connector sets are also possible on request.

PERFORMANCE CHARACTERISTICS

- Plug and Play, no USB driver required
- Runs under Windows, Linux and Mac
- No power source required
- API for C/C++ and C# to integrate in proprietary programs
- Quick and easy to install and configure (e. g., in conjunction with the software CW-968)
- Very favourable price-performance ratio
- Particular suitable for mobile use thanks to extremely compact dimensions

CAN-INTERFACE

Number	1
Type	ISO 11898-2 (highspeed) CAN-protocol version 2.0 A und 2.0 B, supports SAE J1939 (29-bit-identifier)
Transmission rate	20, 50, 100, 125, 250, 500, 666, 800 und 1000 kbit/s, further data rates on request
Termination	None, optional termination with 120 Ohm resistor
Connectors	D-Sub-socket 9 pin (by default) Micro-USB (optional) Further on request

USB-INTERFACE

Type	USB 2.0 (full-speed)
Transmission rate	12 Mbit/s (nominal)
Connectors	USB-connector type A

POWER SUPPLY

Supply voltage	5 VDC via USB (buspowered)
Current consumption	60 mA (at 5 VDC)

ENVIRONMENTAL CONDITIONS

Temperature range operation	- 20 °C to +70 °C
Temperature range storage	-20 °C to 70 °C
Relative humidity	35 % to 85 %, non condensing
Protection class	IP40

GENERAL INFORMATION

Housing	Aluminium housing
Dimensions (LxBxH)	64 mm x 24 mm x 9 mm
Weight	60 g
Cable length	180 cm further cable lengths on request
LED	1, visualization of bus- and device condition
Scope of services	CAN-connection via USB-interface Visualzation of bus-activity via CW-968 software C/C++ and C# API for integration in custom programs and processes Operation without driver installation

FURTHER DEVICES CW-100 SERIES

CW-102 CAN-Ethernet-Interface	CW-131 Optical Transmission Unit
CW-114 FlexRay™-Repeater	CW-140 Interface for CAN and LIN
CW-121 CANnect Gateway for CAN and LIN	CW-141 CAN BUS AND CCP ANALYZER