

CANUSB

Flexible and user-friendly VCI





CANUSB

This is a top seller among the Sontheim VCI family. It facilitates a quick and sturdy connection between PC or notebook and CAN bus. CANUSB is highly flexible, user-friendly and market-proven. Thousands of units are already in the field, used for monitoring of CAN networks, setting parameters of machines or vehicles etc.

Key Features



Shock-resistant aluminium extrusion housing



1 or 2 galv. isolated CAN channels with 1 Mbit/s transfer capacity at 90 % bus load



Hot plug and play ensures fast and convenient commissioning



MT-API enables access to CAN bus for own applications



Optional variant with error frame detection



Ideal for use with a PC or notebook

Housing

The device has a fairly rugged housing built of aluminium. Its compact design and resistivity against shock make it very popular in many areas of the automation and automotive industry.

CAN channels

There are either one or two galvanically isolated CAN channels available which comply with ISO 11898-2. The transfer rate ranges up to 1 Mbit/s at 90 % bus load.

Flexible data processing

Its USB 2.0 interface enables the CANUSB to be used at any laptop, embedded PC or desktop PC. Once you have installed the driver you will benefit from hot plug and play, which is a connection of device to PC without restart.

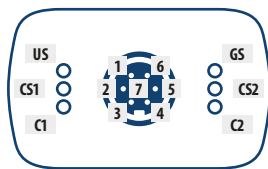
CPU and firmware update

The Motorola STAR12 and the Philips PDIUSB12 guarantee a quick data processing. Both CAN 2.0 A and CAN 2.0 B are supported. CANUSB is suited for numerous operating systems like Windows XP, XP embedded, Vista and 7. All firmware updates can be loaded via USB.

Technical Data

CPU CAN	Motorola Star12, 16-bit
CPU USB	Philips PDIUSB12
CAN	1x CAN interface acc. to ISO 11898-2, galv. isolated (optional 2x CAN)
USB	1x USB 2.0
CAN connection	1x 7-pin round plug
USB connection	1x standard USB connector type A
Cable CAN	optional 2 m CANUSB cable
Cable USB	1 m Standard USB
Max. Data transfer	1 Mbit/s at 90 % bus load
Error frame detection	optional
Analog level measurement	integrated
LEDs	2x triple 3 mm LED angled
Dimensions (l×w×h)	100 mm × 57 mm × 32 mm
Weight	166 g
Housing	Solid aluminium
Operating temperature	0°C up to +70°C
Storage temperature	-20°C up to +85°C
Rel. Humidity	20 % - 90 % non-condensing
Power consumption	max. 350 mA at 5 V
Power supply	via USB interface

Pin assignment



CAN

US	USB Status
CS1	CAN Status 1
C1	CAN 1 receive / transmit action
GS	Device status
CS2	CAN Status 2
C2	CAN 2 receive / transmit action
1	CAN2 low
2	CAN2 high
3	-
4	CAN1 low
5	CAN1 high
6	-
7	CAN GND

USB

1	VCC (VBUS)
2	- Data
3	+ Data
4	GND

Order information

V930204000	CANUSB, 2x CAN, Errorframe, level measurement
V930205000	CANUSB, 2x CAN, Errorframe
V930206000	CANUSB, 2x CAN
V930207000	CANUSB, 1x CAN, Errorframe, level measurement
V930208000	CANUSB, 1x CAN, Errorframe
V930209000	CANUSB, 1x CAN
V930220000	CANUSB-cable, 2 m, 120 Ohm
V930220100	CANUSB-cable, 2 m, (2x D-Sub9 male)

Error frame detection

This feature allows surveillance and monitoring of a CAN network. The CANUSB possesses an own logic for detecting error frames and counting them up in a specific internal memory area. That is used for finding intermittent errors like falsified messages of a CAN participant.

Level measurement

This feature is designed for an analog measurement of CAN levels. It is used for doing diagnostics at vehicles of all kinds or machines. It is especially important when data is lost from the network, which can be caused by short circuits, for example.

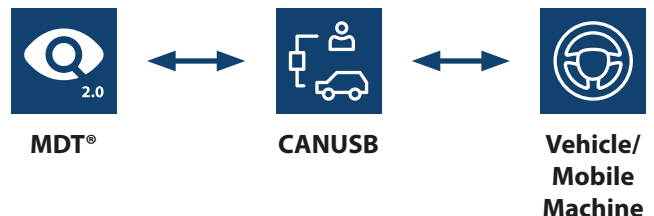
Programming interface

The CANapi provides all functions for programming own applications. It supports all Sontheim interfaces and several third-party devices which is why we enclose our SiECA132 MT-CANapi with four simultaneous handles at every interface dongle.

The Sontheim Modular Diagnostic Tool Chain

You can easily create your individual and professional diagnostic solution for automotive application with the help of the Sontheim interfaces and diagnostic software. Some use cases by linking hardware and software are:

- CAN data visualization, monitoring and processing
- Parameterization and control of whole CAN networks
- Vehicle diagnostics
- Flash processes of electronic control units (ECUs)



MDT®

CANUSB

Vehicle/
Mobile
Machine



Mobile Automation



Industrial Automation



Diagnostics



Connectivity

We are looking forward to your enquiry!

Sontheim Industrie Elektronik GmbH

Georg-Krug-Straße 2
D-87437 Kempten
Phone: +49 (0)831 575900-0
Fax: +49 (0)831 575900-72
Email: info@s-i-e.de

Sontheim Electronic Systems L.P.

201 West 2nd Street
Davenport, IA 52801, USA
Phone: +1 563 888 1471
Email: info@sontheim-esys.com

www.s-i-e.de