



USB/CAN Interface CPC-USB/ARM7

Special Features

- Powerful 32-bit microcontroller with internal CAN controller
- Supports CAN protocols 2.0A and 2.0B
- Display of USB communication and CAN data transfer via LEDs
- Supply completely over USB
- Galvanic isolation optional
- Low speed Transceiver optional
- Firmware flashable over USB
- Development kits for Windows 2000/XP/Vista and Linux available

Description

CPC-USB is a CAN interface for USB ports in a compact and robust metal housing. Due to easy handling and favourable price CPC-USB is suitable for configuration and analysis of CAN systems.

CPC-USB includes a CAN interface that supports 11-Bit and 29-Bit CAN identifiers as well as a 32-bit microcontroller of type LPC2119 with 128kByte Flash and 16kByte RAM. The interface is supplied via USB, a separate supply for the CAN side is not needed.

The interface is optionally available with galvanic isolation. In addition, a variant with low speed transceiver TJA1054 for automotive environments can be obtained.

Application development kits for the operating systems Windows and Linux are offered separately.

Technical Data

Layout and Connection

CPC-USB includes a CAN segment connected by a connector of type D-Sub 9, the pin assignment complying to CiA DS-102 standard. In addition, the interface includes a USB connector that also carries the supply for CPC-USB.

The following table shows the assignment of the CAN connector:

Pin	Name	Function
2	CAN_L	CAN data line (dominant low)
3	GND	Ground
7	CAN_H	CAN data line (dominant high)

Limiting Values

Parameter	Minimum	Maximum	Unit
Storage temperature	- 20	+ 80	°C
Operating temperature	0	+ 70	°C
Voltage supply	0	+ 6	V
Voltage on bus connections	- 30	+ 30	V

Any (also temporary) stress in excess of the limiting values may cause permanent damage on CPC-USB and other connected devices. Exposure to limiting conditions for extended periods may affect the reliability and shorten the life cycle of the device.

Nominal Values

Parameter	Minimum	Typical	Maximum	Unit
Current consumption (running idle)	–	–	500	mA
Current consumption (operation)	–	–	500	mA
Supply voltage	4,0	5,0	5,5	V

All values, unless otherwise specified, refer to a supply voltage of 5V and an environmental temperature of 20°C.

Scope of Delivery

- CAN-Interface CPC-USB
- Connection Cable
- User Manual
- proCANtool CAN-Monitor for operating systems Windows 2000/XP/Vista