Ethernet/CAN Gateway EtherCAN CI-ARM9

Special Features

- EtherCAN CI-ARM9 Version 3.0
- 454 MHZ ARM9 CPU (Freescale I.MX287)
- 128 MB SDRAM, 4 GB eMCC Flash
- 10/100 MBit Ethernet
- 2 CAN channels
- Individual galvanic decoupling of both CAN transceivers
- RS232 interface for configuration
- USB host interface
- SD-Card slot
- Embedded Linux operating system
- Easy development of applications running on the device possible
- Free of charge development kits for Windows 7/8.x/10/11 an Linux for client applications
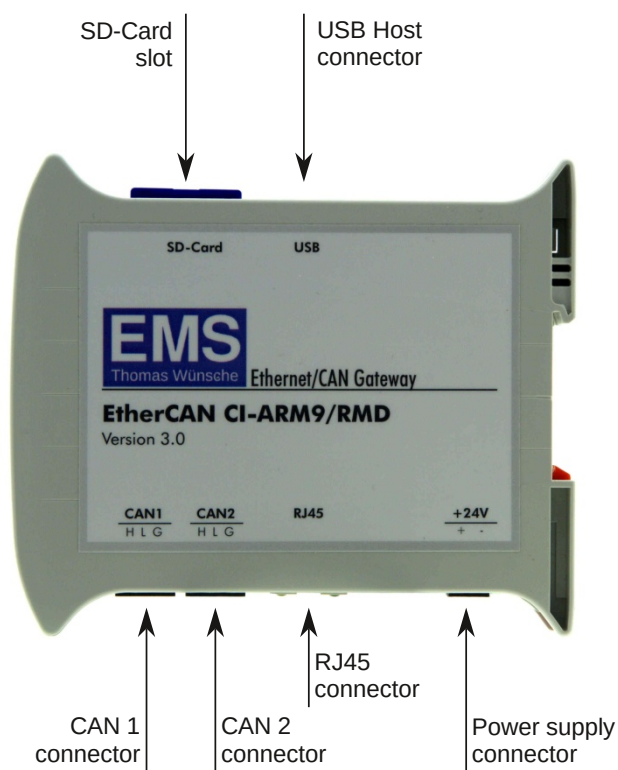
Description

EtherCAN CI-ARM9 acts as a gateway between CAN and Ethernet systems. It is essentially suitable for applications where processing of messages in the gateway is needed. This includes i.e. visualization of CAN messages by a Web server, complex protocol conversions and others.

A Freescale ARM9 CPU (I.MX287) clocked with 454 MHz gives enough power for these applications. The device has 128 MB SDRAM and 4 GB eMMC Flash memory. The CAN interface is realized by the two internal CAN controllers of the CPU. Both channels are individually galvanic decoupled from CPU and power supply.

A USB 2.0 full speed host interface enables the connection of external peripherals like USB memory sticks or USB WLAN adapters. The module is intended to be rail mounted.

Technical Data

Layout and Connection

Limiting values

Parameter	Minimal	Maximal	Unit
Storage temperature	-40	+85	°C
Operating temperature	-20	+60	°C
Supply voltage	-36	+36	V
Voltage on the bus connections	+10	+30	V

Any (also temporary) stress in excess of the limiting values may cause permanent damage on EtherCAN CI-ARM9 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	Minimal	Typical	Maximal	Unit
Current consumption	-	100	150	mA
Supply voltage	10	24	30	V

All values, unless otherwise specified, refer to a supply voltage of 24 V and an environmental temperature of 20 °C.

Scope of Delivery

- Ethernet/CAN gateway EtherCAN CI-ARM9
- User manual
- proCANtool CAN-Monitor for operating systems Windows 7/8.x/10/11