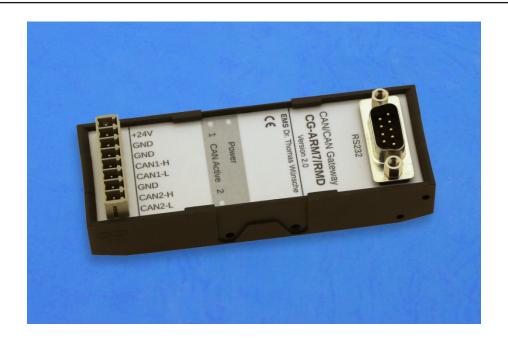
CAN Gateway CG-ARM7/RMD



CAN/CAN Gateway CG-ARM7/RMD

Special Features

- Connection of CAN subnetworks with differing data rates
- Filtering and buffering of data traffic
- Support of 11-bit and 29-bit identifiers
- Increase of the system extension
- Powerful Cortex M3 microcontroller with internal CAN controller
- Rail mountable

Description

The rail mountable CAN/CAN gateway CG-ARM7/RMD transmits CAN signals between subsystems. CG-ARM7/RMD allows a flexible design of the wiring topology. Star and tree structures as well as extensive line structures can be realized. Among the available functions are data rate adaption, message filtering as well as identifier conversion between the coupled busses. The restriction of the maximum data rate depending on cable length for single CAN segments can be abolished for the over-all system by use of CG-ARM7/RMD.

CG-ARM7/RMD obtains its potential through the use of a 32 bit microcontroller with 96 MHz clock. High speed processing and low latencies allow the use with high data rates and busloads. Cost efficient series applications are particularly promoted by use of CG-ARM7/RMD.

The configuration of the device functions can take place either through CAN or through the built-in RS232 interface. CG-ARM7/RMD can be deliverd with a customer specific baudrate configuration. Download software for the configuration is available for Windows PCs as well as Linux PCs.

CG-ARM7/RMD CAN Gateway

Technical Data

Layout and Connection

The connection to the CAN buses is achieved via pluggable terminals. Besides the CAN signals the clamps also carry the supply voltage for CG-ARM7/RMD.

The following table shows the pin assignment of the internally connected interfaces.

Pin	Name	Function
1	+24 V	Supply voltage
2, 3, 6	GND	Ground
4	CAN1_H	CAN1 data line (dominant high)
5	CAN1_L	CAN1 data line (dominant low)
7	CAN2_H	CAN2 data line (dominant high)
8	CAN2_L	CAN2 data line (dominant low)

Limiting Values

Parameter	Minimum	Maximum	Unit
Storage temperature	-40	+85	°C
Operating temperature	-20	+85	°C
Supply voltage	-100	+30	V
Voltage on bus connections	-30	+30	V
Admissible power consumption (at 60 °C)	-	2000	mW

Any (also temporary) stress in excess of the limiting values may cause permanent damage on CG-ARM7/RMD 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)	-	40	-	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

- CAN/CAN gateway CG-ARM7/RMD
- Plug with screw terminals
- User manual
- · Configuration software