

CAN-CBM-SIO1/SIO4

CAN Connection to Serial Interface



- RS-232, -422, -485 or TTY to CAN
- independent microcontroller 68331 for protocol realization
- compact top-hat rail module

Intelligent Interface Between CAN and Serial Interface

The CAN-CBM-SIO4 module offers the connection between five serial interfaces and the CAN network with intelligent data management (CBM-SIO1 just one serial interface). It operates with a 68331 microcontroller, which buffers the CAN data in a local SRAM. Data security and consistency are guaranteed up to 1 Mbit/s in the CAN network. The firmware - including optional protocols - is stored in the Flash.

CAN Interface

The ISO 11898-compliant CAN interface allows a maximum data-transfer rate of 1 Mbit/s. The CAN interface is electrically insulated by optocouplers and DC/DC converters. Connection is done via a 5-pole connector with screws or via DeviceNet.



Serial Interfaces

All interface parameters can be configured via CAN - the maximum bit rate is 500 kbit/s (RS-232: 38,4 kbit/s). The parameters and CAN settings are stored in an EEPROM. In standard mode without protocol, the unit

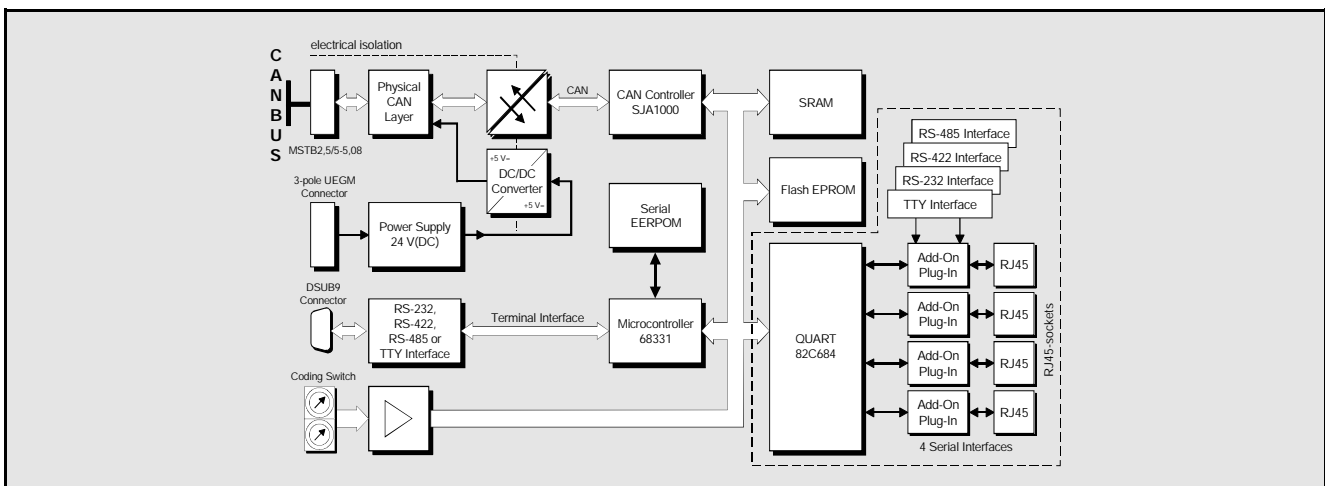
transmits a CAN frame on the previously set CAN identifier after receiving 8 ASCII characters or a configurable end character (e.g. CR, LF or EOT) and after a definable time out ran out when no characters have been received anymore.

Alternatively, usual protocols, such as 3964R, modebus and also FreePort are available for the connection of an S7-200. Customized protocols are available on request or can be developed by means of GNU-C. When using the RS-232 interface as a modem connection a remote service is available for the CAN network in remote operation.

Apart from RS-232 it is also possible to chose RS-422, RS-485 or TTY-20mA as physical interfaces. The connection of the serial interface is done via four RJ45-sockets (only at CBM-SIO4) and one DSUB9-connector.

CAN Protocols

On request CANopen and DeviceNet can be supported as layer-7 protocols on CAN side.



Technical Specifications:

CPU and serial interfaces:	
Microcontroller:	68331, 25 MHz
Memory:	512 k x 16 bit SRAM, 111 k x 8 bit Flash-EPROM
Serial controller:	68331 (1x interface DSUB9-connector) QUART 82C684 (4x interface RJ45-socket)
Available interfaces:	RS-232, RS-422, RS-485, TTY active/passive
CAN:	
CAN controller:	SJA1000, CAN 2.0A/B
CAN interface:	differential, electrically insulated, 1 Mbit/s, ISO11898, opt. DeviceNet
General:	
Connectors:	CAN: 5-pole DeviceNet connection socket serial: 1x DSUB9-connector, 4x RJ45-socket power: UEGM screw connector

General (further):		
Operating voltage:	nominal 24 V (DC)	
Order information:		
Designation:		Order No.
CAN-CBM-SIO1	1x CAN 2.0A/B at 1 x RS-232	C.2840.02
CAN-CBM-SIO4	1x CAN 2.0A/B at (4+1) x RS-232	C.2843.02
Instead of RS-232 added with (specify in order):		
	RS-422 adaptor	X.1930.02
	RS-485 adaptor	X.1930.04
	TTY-20mA passive	X.1930.06
	TTY-20mA active	X.1930.08
Options:		
CAN-CBM-SIO	Freeport protocol	C.2840.42
CAN-CBM-SIO-Co	CANopen (slave)	C.2840.18
CAN-CBM-SIO-MD	Manual for C.2840.02	C.2840.21