



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 opto-couplers and DC/DC converters. Connection is via a 5-pole connector with screws or via DeviceNet.

Serial Interfaces

You can configure all interface parameters through CAN - the maximum bit rate is 500 Kbit/s (RS-232: 38,4 Kbits). 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.

For further information please visit
<http://www.esd-electronics-usa.com/PLC-Modules.html>



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Alternatively, usual protocols, such as 3964R, Modbus and FreePort are available for the connection of an S7-200. Customized protocols are available on request or 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 choose RS-422, RS-485, or TTY-20mA as physical interfaces. The connection of the serial interface is through four RJ45-sockets (only at CBM-SIO4) and one DSUB9-connector.

CAN Protocols

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

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challenge

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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 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
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 add (specify in order):	RS-422 adaptor RS-485 adaptor TTY-20mA passive X TTY-20mA active X	X.1930.02 X.1930.04 1930.06 1930.08
Options		
CAN-CBM-SIO	Freeport protocol	C.2840.42
CAN-CBM-SIO-Co	CANopen (slave)	C.2840.18

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