

CAN-CBM-DP

Profibus-DP / CAN Gateway

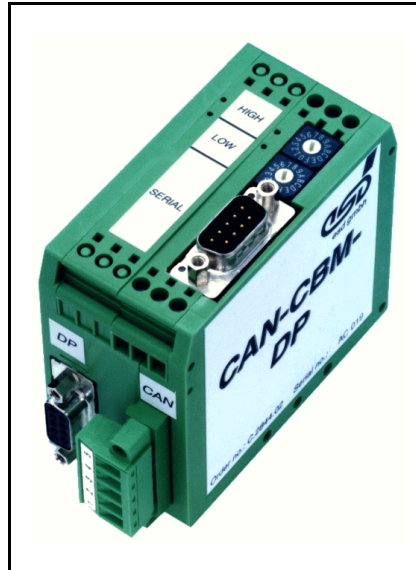
- fast and reliable linking Profibus-DP and CAN with data buffering
- CAN-PLC link, e.g. to SIEMENS S7-300 or S7-400
- no limitation on the number of CAN participants

Linking DP and CAN

The module CAN-CBM-DP can link any Profibus-DP master to a CAN network. The DP/CAN gateway operates as a slave-I/O component with a total of maximum 300 bytes data (partitioning from up to 244 bytes input and 56 bytes output to 244 bytes output and 56 bytes input data) on the DP-bus.

Applications

With the CAN gateway you can couple CAN modules with CANopen or layer-2 implementation to e.g. a SIMATIC-S7. The number of CAN participants is not limited by the module.



Physical Interfaces

The ISO 11898-compatible CAN interface allows a maximum data-transfer rate of 1 Mbit/s. The Profibus-DP-Slave interface automatically recognizes all usual bit rates up to 12 Mbit/s.

The DP as well as the CAN interface are electrically isolated by optocouplers and DC/DC converters.

Serial interface

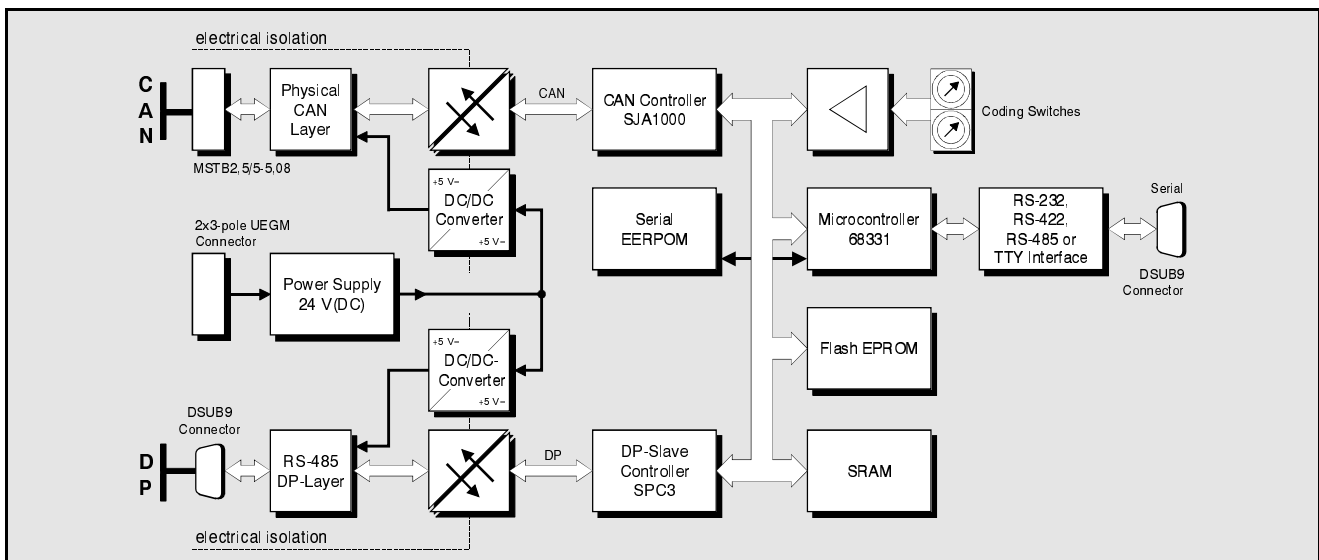
The module has a serial interface (default: RS-232) for service and configuration. It is connected by a DSUB9 connector.

Configuration and CAN protocols

For the I/O data mapping of the DP slave a configuration software for Windows95/98 or Windows NT is available.

CANopen is supported as Layer-7 protocol on the CAN layer.

(This product is not recommended for new designs.)



Technical Specifications:

| CPU and serial interface: | |
|---------------------------|---|
| Microcontroller: | 68331, 25 MHz |
| Memory: | 512 k x 16 bit SRAM, 128 k x 8 bit Flash EPROM |
| Available interfaces: | RS-232, RS-485, TTY, max. 38,4 kbit/s |
| CAN: | |
| CAN controller: | SJA1000, CAN 2.0A/B |
| CAN interface: | differential, electrically isolated, 1 Mbit/s, ISO11898 |
| Profibus-DP: | |
| DP controller: | SPC3, DP-Slave |
| DP interface: | RS-485, electrically isolated, max. 12 Mbit/s |

| General: | | |
|--------------------|---|----------------------------|
| Operating voltage: | nominal 24 VDC | |
| Connectors: | CAN: | 1x 5-pin connection socket |
| | DP: | 9-pin female DSUB |
| | serial: | 9-pin male DSUB |
| | power: | UEGM screw connector |
| Order information: | | |
| Designation | | order no. |
| CAN-CBM-DP | DP-CAN gateway, layer 2, CAN 2.0A (11-bit CAN-ID), GSD-file | C.2844.03 |
| CAN-CBM-DP-2.0B | DP-CAN gateway, layer 2, CAN 2.0B (29-bit CAN-ID), GSD-file | C.2844.05 |
| CAN-CBM-DP-ME | English user's manual | C.2844.21 |