CAN-CBM-Bridge/2
Intelligent CAN Bridge

- linking two CAN networks with data buffering
- internal micro controller MB90F543
- compact hatrail module

Linking two CAN networks
The module CAN-CBM-Bridge/2 can link two independent CAN networks. The networks can be operated with different bit rates. The module operates with a MB90F543 microcontroller, which buffers the CAN data in a local SRAM. The firmware is in the flash. A serial EEPROM stores parameters.

CAN-Interface
The ISO 11898-compatible CAN interfaces allow each a maximum data-transfer rate of 1 Mbit/s.
The CAN interfaces are electrically insulated by optocouplers and DC/DC converters.

They are connected via 5-pin screw/plug connectors in Combicon design.

Programming
The RS-232 is used as serial programming interface. The interface is connected via a DSUB9 connector.

The CAN-CBM-Bridge/2 module can easily be configured by means of a terminal, e.g. Windows Hyperterminal.

The module is a 11-bit-ID and a 29-bit-ID Bridge. Up to 26 unidirectional links of identifiers can be configured. Beyond that up to four masks can be defined to link the identifiers completely or to link defined ranges of identifiers.
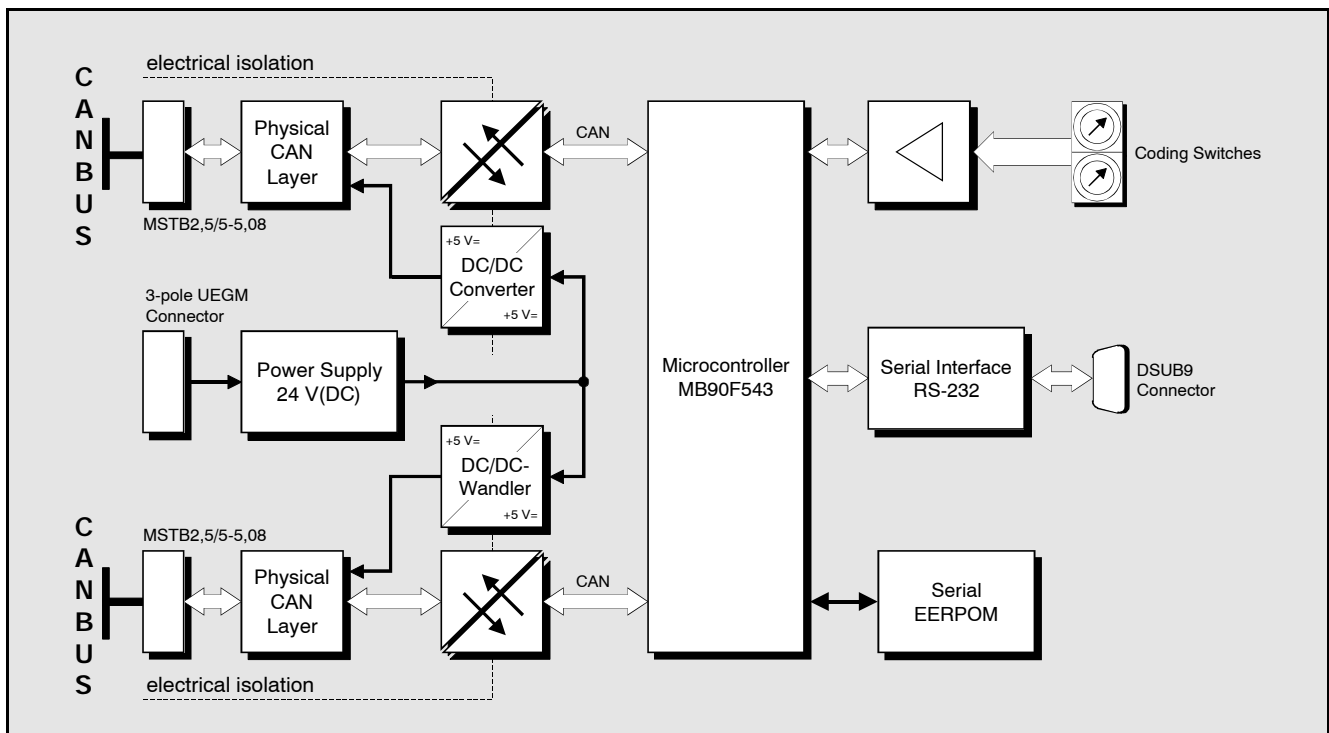
Technical Specifications:

CPU and serial interface:	
Microcontroller:	MB90F543, 16 MHz
Memory:	6 k x 8 bit SRAM, 128 k x 8 bit Flash EPROM, serial SPI-EEPROM
Serial controller:	MB90F543-internal, max. 9600 kbit/s
Physical interface:	RS-232

CAN bus interface:	
CAN controller:	MB90F543-internal, CAN 2.0A/B
CAN interface:	differential, electrically insulated, 1 Mbit/s, ISO11898

General :		
Connectors:	CAN:	2x 5-pin connection socket
	serial:	9-pin DSUB male,
	power:	UEGM screw connector
Operating voltage:	nominal 24 V(DC)	

Order information:		
Designation		Order No.
CAN-CBM-Bridge/2	11/29-bit CAN-Bridge, CAN 2.0A/B	C.2853.02
CAN-CBM-Bridge/2-ME	English user's manual	C.2853.21