CAN-CBX-AIR
Wireless CAN-Bridge with In-Rail-Bus

esd gmbh

- wireless CAN-Bridge
- CAN telegram filtering
- ISM band (2.4 GHz)
- external antenna

Wireless CAN Bridge
The CAN-CBX-AIR module is designed for wireless radio communication of sperated CAN networks.

Compact I/O Module
The CAN-CBX module series with In-Rail-Bus provides industry compatible CAN bus in-/output modules in combination with service-friendly 'wiring' of CAN bus and supply voltage.

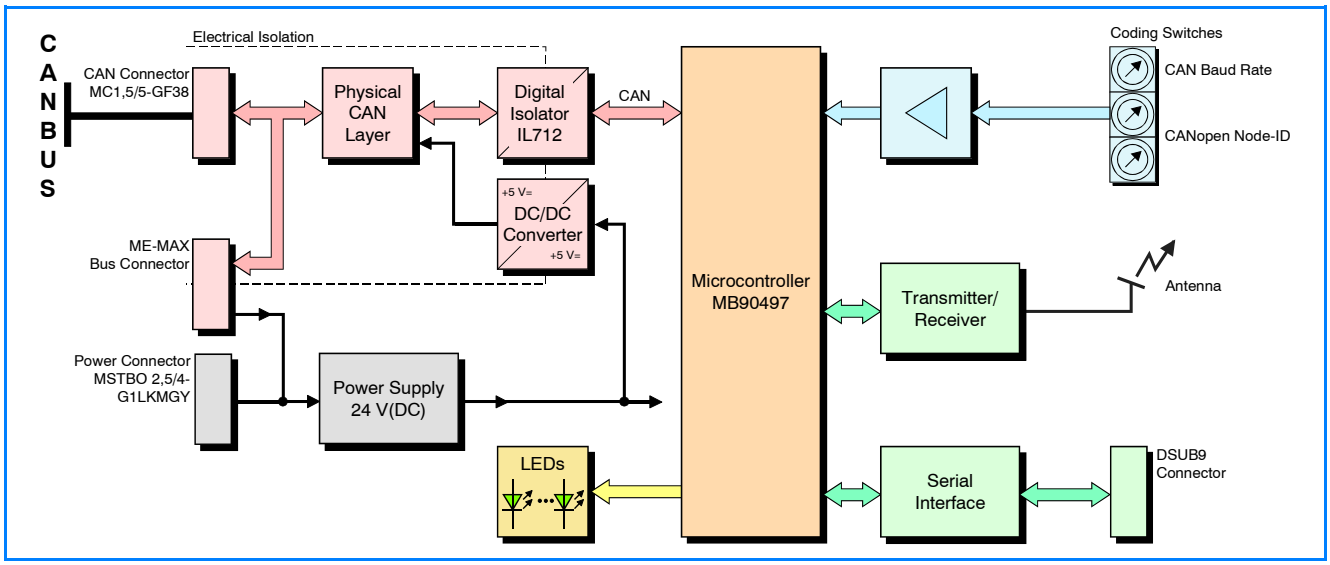
In-Rail-Bus
The power supply and the CAN bus signals can be applied via the In-Rail-bus connector (TBUS-connector) integrated in the mounting rail or separately via the clamp-connection.

From the In-Rail-Bus individual modules can be removed without interrupting the bus signals.

CAN Interface
The CAN interface is designed according to ISO11898 with electrical isolation and bit rates up to 1 Mbit/s.
The CANopen-node number and the CAN-bit rate can be easily set via coding switches.

LED Display
Four LEDs indicate the state of the radio communication interface and the CAN bus state.

Software Support
The CAN-CBX-AIR module can be configured using a serial interface, e.g. Windows 'Hyperterminal'



Technical Specifications:

Radio communication:	
Carrier frequency:	*ISM band, 2.4 GHz*
Transciever	*typical peak output power: + 2 dBm, typical Rx sensivity for BER = 10^{-4}: - 80 dBm*
Antenna type:	*impedance: 50 Ohms nominal, antenna gain: 2.0 dBi, connector: coaxial SMA plug (male)*
Transmission range:	*approx. 15 m in free field*
CAN, Microcontroller:	
Microcontroller:	*MB90F497, CAN 2.0A/B*
CAN interface:	*acc. to ISO11898, electrically isolated, bit rate up to 1 Mbit/s*
Configuration	*via serial interface, e.g. using Windows 'Hyperterminal'*

General:		
Ambient temperature:	*0 °C ... 50 °C*	
Power supply:	*nominal 24 VDC / 60 mA (typical)*	
Dimensions:	*22 x 100 x 115 mm (without antenna)*	
Connectors:	*Power:*	*Phoenix MSTBO2,5/4-G1LKMGY*
	CAN:	*Phoenix MC1,5/5-GF-3.81*
	Serial:	*9-pin DSUB socket*
	Antenna:	*Coaxial receptacle type: SMA (female)*

Order information:		
Designation		*order no.*
CAN-CBX-AIR	*Wireless CAN-Bridge (one module)*	*C.3050.02*
CAN-CBX-AIR-Bridge	*2x C.3050.02 transmision range in the open field approx. 15 m*	*C.3050.04*

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