CAN-CBX-AI814
CANopen® Module with 8 Analog Inputs, 14 Bit Resolution

8 A/D-Converter Inputs
- *Resolution: 14 bit*
- *Input voltage range: ±10.24 V*
- *Sample rate: up to 100 µs / 8 channels simultaneously*
- *CANopen profiles according to CiA® specification CiA 301 and CiA 401*

Approved Reliability and Ease of Use
- *Electrical isolation of analog inputs*
- *InRailBus technology combines high ease of use and proven reliability*
- *DIN-EN carrier rail mounting (TS 35)*

Firmware adaptable to Customer Requirements via CANopen

Analog Inputs
The CAN-CBX-AI814 module is equipped with an A/D-converter that offers eight analog input channels with a resolution of 14 bit.

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

CAN Interface and LED Display
The CAN interface is designed according to ISO11898-2 high-speed layer with electrical isolation and supports bit rates up to 1 Mbit/s.
The CANopen-node number and the CAN bit rate can be easily set via coding switches. Four LEDs indicate the module and CANopen node status.
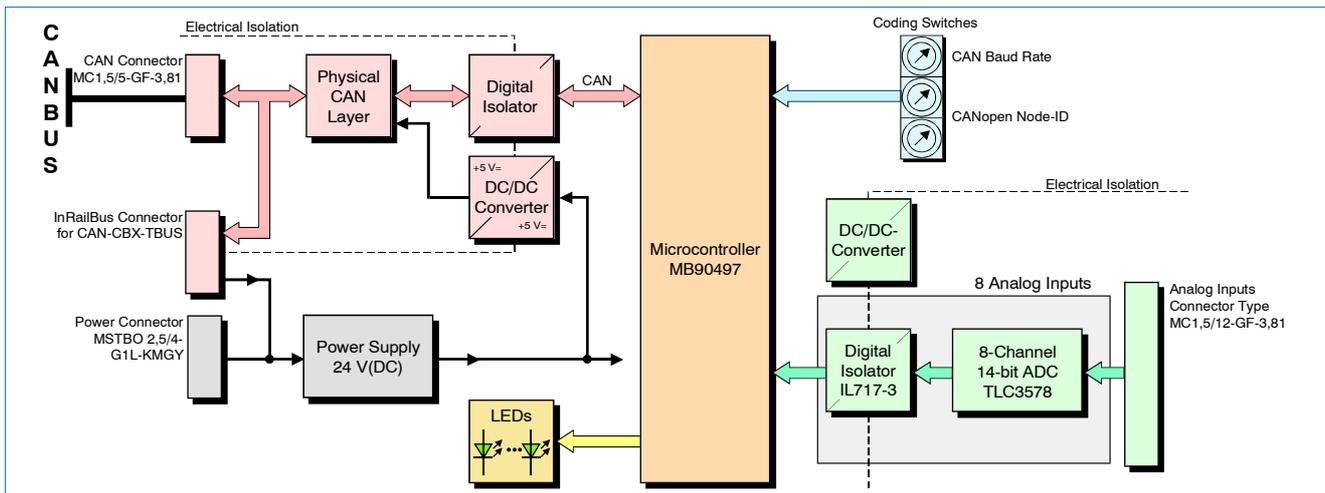
InRailBus
The CAN-CBX-AI814 features the possibility to connect the power supply and the CAN bus signals via the InRailBus connector (CAN-CBX-TBUS connector) integrated in the mounting rail. Individual modules can then be removed from the InRailBus without interrupting the bus signals.

Software Support
The CAN-CBX-AI814 comes with CANopen firmware according to CiA 301 and and with a CANopen-I/O profile according to CiA 401.

Technical Specifications:

Process Coupling:	
Number of inputs	8 analog inputs
Resolution	14 bits
Input range	± 10 V
Throughput	> 100 µs / 8 channels simultaneously
Electrical isolation	By digital isolator and DC/DC-converter

Microcontroller and CAN Interface:	
Microcontroller	MB90F497, ISO 11898-1
CAN interface	According to ISO 11898-2, differential, electrically isolated, bit rate up to 1 Mbit/s
Protocol	CANopen according to CiA profiles CiA 301 and CiA 401

General:	
Power supply voltage	Nominal: 24 VDC ±20%
Current consumption	Typical (24 V): 40 mA Maximum: 45 mA
Ambient temperature	0 °C ... +60 °C
Relative humidity	Max. 90 % (non-condensing)
Dimensions	22.5 mm x 99 mm x 114.5 mm (dimensions without mating connectors)
Housing	Plastic housing (ME MAX) for carrier rail mounting NS 35/7,5 DIN EN 60715
Connectors	Power: Phoenix MSTBO2,5/4-G1LKMGY CAN: Phoenix MC1,5/5-GF-3.81 I/O: Phoenix MC 1,5/12-G-3,81
Weight	Approx.125 g

Order Information:		
Hardware		Order No.
CAN-CBX-AI814	8 analog inputs, 14 bit resolution, including 1 CAN-CBX-TBUS (InRailBus connector, C.3000.01)	C.3020.02