

CAN-CBX-AI420

4 Analog Inputs, Resolution 20 Bit

- 4 differential inputs
- programmable input range
- resolution 20 bit
- In-Rail-Bus
- CANopen

Analog Inputs

The CAN-CBX-AI420 module is equipped with two precision, high throughput analog front ends with $\Sigma\Delta$ -A/D-converters that in common offer four analog input channels. Depending on the selected sample rate and the external wiring a resolution of at least 20 bit can be achieved. The input voltage range is programmable.

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.

InRailBus

The power supply and the CAN bus signals can be applied via the InRailBus connector



(TBUS-connector) integrated in the mounting rail or separately via the clamp-connection.

From the InRailBus 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.

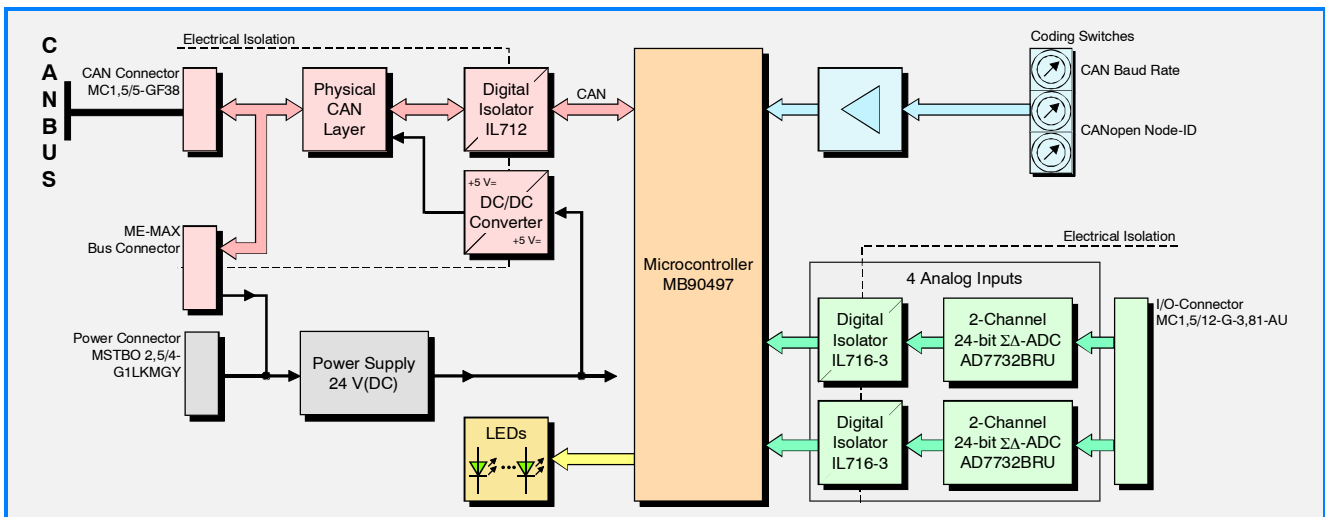
The CANopen-node number and the CAN-bit rate can be easily set via coding switches at the top side of the module.

LED Display

Four LEDs indicate the input state and the CANopen node state.

Software Support

The module comes with CANopen firmware according to CiA-DS-301 and with a CANopen I/O-profile according to CiA-DS-401.



Technical Specifications:

Process coupling:	
Number of inputs:	4 analog differential inputs
Resolution:	up to 20 bits
Input range:	programmable: ± 10 V
Conversion time:	16-bit p-p resolution achievable with a total conversion time of 500 μ s (2 kHz channel switching)
Protection circuits:	electrical isolation by digital isolators, analog inputs overvoltage tolerant: <ul style="list-style-type: none"> • up to ± 16.5 V not affecting adjacent channel, • up to ± 50 V absolute maximum
CAN, Microcontroller:	
Microcontroller:	MB90F497, CAN 2.0A/B
CAN interface:	acc. to ISO11898, differential, electrically isolated, bit rate up to 1 Mbit/s
Protocol	CANopen DS-301, DS-401

General:	
Ambient temp.:	0 ... 50 °C
Power supply:	nominal 24 VDC, permitted range 12...32 VDC
Dimensions:	22 x 112 x 113 mm
Connectors:	Power: Phoenix MSTBO2,5/4-G1LKMGY CAN: Phoenix MC1,5/5-GF-3.81 Analog: Phoenix MC1,5/12-G-3,81-AU
Order information:	
Designation	order no.
CAN-CBX-AI420 4 analog inputs 20 bit	C.3030.02