



# 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 SL-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 is possible. 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 are applicable through the InRailBus connector (TBUS-connector) integrated in the mounting rail or separately via the clamp connection. From the InRailBus individual modules are removable without interrupting the bus signals.



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For further information please visit  
<http://www.esd-electronics-usa.com/CAN IO Series.html>

### CAN Interface

Designed according to ISO11898, the CAN interface is opto-isolated with bit rates of 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 CiADS-301 and with a CANopen I/O-profile according to CiADS-401.

growing with the  
challenge

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### Technical Specifications

<b>Process Coupling:</b>	
Number of inputs:	4 analog differential inputs
Resolution:	Up to 20 bits
Input range:	Programmable: $\pm 10$ V
Conversion time:	16-bit p-p resolution achievable with a total conversion time of 500 s (2 kHz channel switching)
Protection circuits:	Electrical isolation by digital isolators,
	Analog inputs overvoltage tolerant:
	Up to $\pm 16.5$ V not affecting adjacent channel,
	Up to $\pm 50$ V absolute maximum
<b>CAN, Microcontroller:</b>	
Microcontroller:	MB90F497, CAN 2.0A/B
CAN interface:	Acc. to ISO11898, differential, opto-isolated, bit rate up to 1 Mbit/s
Protocol	CANopen DS-301, DS-401

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<b>General</b>	
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 MSTB02, 5/4-G1LKMGY
	CAN: Phoenix MC1, 5/5-GF-3.81
	Analogue: Phoenix MC1, 5/12-G-3, 81-AU

### Order Information

Designation		order no.
CAN-CBX-AI420	4 analog inputs 20 bit	C.3030.02

