

## Data sheet

**ET-EAI10-182xx** Rev. B0

Module level product

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## Sensor Interface Module

### Features

- EtherCAT slave module
- 10 analog inputs
- 4-20 mA or +/- 10 Volt input configuration
- 16 bit resolution
- Max. 2 kSample/s per channel
- 1 input for temperature measurement
- Each input has separate connector
- Power output for sensor power
- Gold plated contacts
- Operating temperature -25 / +70 °C
- Wide input range (8-30 V) DC power supply
- Stainless steel enclosure with DIN-rail fastening
- Small size: approx. 12 x 12 x 6 cm
- Cable fastening bracket available



### Description

The EAI10 module is an EtherCAT slave module with 10 analog and one temperature sensor input. The analog inputs have a 4-20 mA or 0 - 10 V input range.

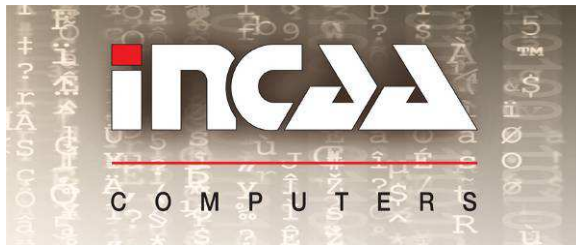
All channels may be sampled up to 2 kSample/s, each channel. Inputs are converted with 16 bits of resolution. An automatic calibration mechanism ensures highly stable and precise results. All inputs are protected and have input filters that make the module suitable for harsh environments.

The temperature sensor input is for NTC temperature sensors. E.g. Tasseron 10K3%@60C B3977

Each input has a separate connector. This connector provides sensor power, where necessary. The connectors have a locking mechanism and gold plated contacts.

A wide range DC power-input, the low power requirements, the small size and Din-rail fastening ensure easy system integration.

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### Specifications

Analog inputs		
Number	10	
	ET-EAI10-18219	ET-EAI10-18267
Type	4-20 mA	+/- 10 Volt
Input impedance	200 Ohm 0.1 %	>1 MOhm
Bandwidth	-3 dB @ 1000 Hz	
Sample frequency	Max. 2 kSample/s, each channel	
Resolution	16 bit	
Correction	Auto gain and offset temperature drift correction	
Connector	MOLEX Mini Fit Jr 4 pin, gold plated contacts	
Sensor power output	50 mA nominal per output. Short-circuit protected Max. short circuit current 2A, 4A peak (one channel only)	
Temperature sensor input		
Number	1	
Type	NTC resistor	
Range	-20 °C - +80 °C	
Connector	MOLEX Mini Fit Jr 3 pin, gold plated contacts	
Power supply requirements		
Input	12 - 24 VDC nom., min. 8 VDC max. 30 VDC	
Power consumption	Typ. 120 mA @ 12 V (no sensors powered) Max. 900 mA @ 12 V	
Protection	Against reverse polarity, under- and overvoltage	
Norm conformity		
EMC	EN 50121-3-2, EN50121-4, RLN00007	
Mechanical		
Dimensions	120 x 120 x 60 mm (l x w x h)	
Material	Stainless steel	
Color	Brushed steel	
Mounting	DIN-rail fastening	
Environmental conditions		
Operating temperature	-25 °C to +70 °C	
Max. operating rel. humidity	90%, no condensation	
Warranty		
Warranty period	1 year	
Identification		
Type number	ET-EAI10-18219 Rev. B0 (4-20 mA input range)	
	ET-EAI10-18267 Rev. B0 (+/-10 Volt input range)	

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