

Introduction

AI8x is an analog input module with 8 inputs designed for mounting on a standard DIN-Rail with proprietary MTBus. Each channel can be differential input, -10...+10V range or current input 0...20 mA range.

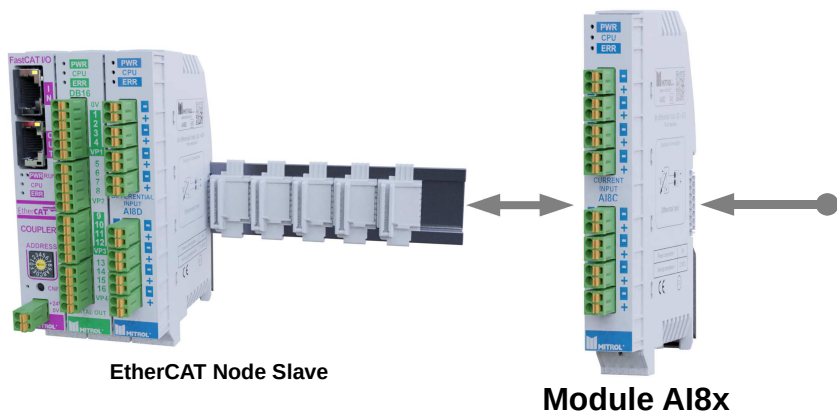
The module indicates its state via three diagnostic leds.



Hardware Specification

Model	AI8D	AI8C
Analog Input		
Channels	8	
Analog type	Differential	Current
Analog range	-10...+10V	0...20mA / 4...20mA
Resolution	16 bit	
Conversion time	1ms for all inputs	
Digital filter	Configurable	
Common mode range	+/- 20V (referred to internal GND)	
Electrical		
Electrical isolation	500Vrms	
Power consumption	1W	
Interface	Proprietary MTBus	
Stripping length	8-9mm	
Specification	EN 61131-2	
Diagnostic leds	Power (green); CPU (yellow); Error (red)	
Mechanical		
Dimensions [W x H x D]	19mm x 120mm x 93mm	
Installation	On 35mm DIN-Rail	
Enviroment		
Operating/storage temperature	0°C to 55°C / -20°C to 85°C	
Relative humidity	Max 95% without condensation	
Degree of protection	IP20	

Application



Analog Inputs

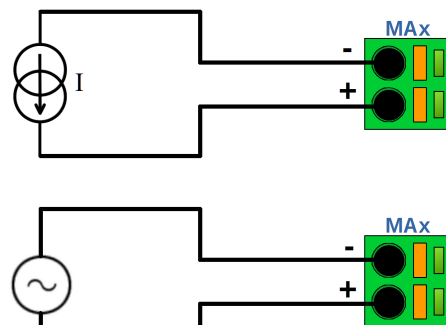


Pin Assignments

MA1	1	+	•	IN1-
		-	•	IN1+
MA2	2	+	•	IN2-
		-	•	IN2+
MA3	3	+	•	IN3-
		-	•	IN3+
MA4	4	+	•	IN4-
		-	•	IN4+
DIFFERENTIAL INPUT AI8D				
MA5	5	+	•	IN5-
		-	•	IN5+
MA6	6	+	•	IN6-
		-	•	IN6+
MA7	7	+	•	IN7-
		-	•	IN7+
MA8	8	+	•	IN8-
		-	•	IN8+
CURRENT INPUT AI8C				

Wire Connections

Example of Connection



Dimensions (Units: mm)

