



■ Features

- 8 +/- 10 V analog input
- RJ-45 communication port
- 2 way isolation on power, communication
- Tiny design(90×75×57mm), DIN rail compatible
- 16-bit high resolution, 0.3mV min
- High precision and low shift reference 5V inside
- Hardware offset, gain calibration to EEPROM storage
- Rapid A/D transferation. Sampling rate = 250 ksp



MN-AD8-DIN

Distributed Motionnet 8-ch Analog Input Module

■ Introduction

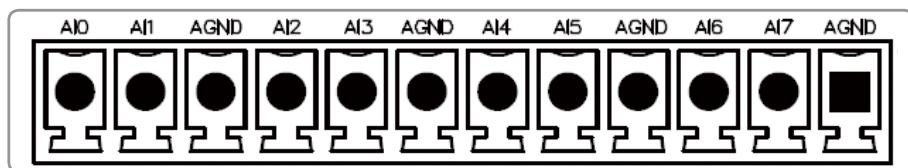
MN-AD8-DIN is a Motionnet 8-channel analog input I/O module. The max device capacity can be loaded 64 I/O modules on each Motionnet communication port. Thus, each port can be expended into 512 analog input points at once. The communication latency between two devices is 15.1μsec so that the max communication latency with 64 I/O modules on one communication port is 0.97 ms. The I/O connection status update is automated and real-time by hardware without occupied CPU time. The 16 bit high precision resolution analog input is provided +/- 10V range, 5V reference voltage with low shift, and hardware calibration in offset and gain for easy usage to customers.

■ Specifications

Model		MN-AD8-DIN
Analog Input		
Input Channels		8
Voltage Level		+/- 10 V
Sampling Frequency		250 k sps
Calibration Function		Offset: provided by hardware Gain: provided by hardware
Interface		
LED Indicators		Communication stats(Link, Error) Internal 3.3 V Power Terminal resistor switch
Communication Speed		Selectable 2.5, 5, 10 or 20 Mbps by DIP Switch
Cyclic Scan Time		15.1 μs per device (20 Mbps)

Model		MN-AD8-DIN
Power		
Voltage Range		24VDC +/-5% (1000 V isolated)
Power Consumption		3W max
Protection		Reverse voltage and overcurrent protection
Connection		5-Pin removable terminal block
Mechanical		
Case		Plastic
Flammability		UL 94V-0 housing
Dimensions		75mm x 90mm x 57 mm (W x L x H)
Installation		DIN-Rail Mounting
Environmental		
Operating Temperature		0 ~ + 60°C
Storage Temperature		-20 ~ +80°C
Operating Humidity		10 ~ 85%; Non-condensing
Storage Humidity		5 ~ 95%; Non-condensing

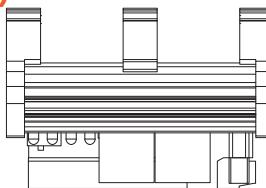
■ Pin Assignments



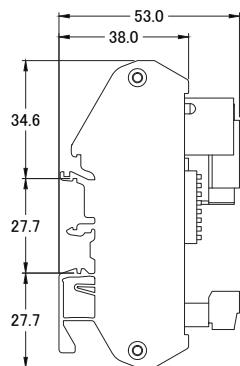
NO.	Name	Specifications	Signal Direction
CN2 Pin Assignments			
12	AI0	Analog input channels 0	Input
11	AI1	Analog input channels 1	Input
10	AGND	Analog Ground	Input
9	AI2	Analog input channels 2	Input
8	AI3	Analog input channels 3	Input
7	AGND	Analog Ground	Input

NO.	Name	Specifications	Signal Direction
CN2 Pin Assignments			
6	AI4	Analog input channels 4	Input
5	AI5	Analog input channels 5	Input
4	AGND	Analog Ground	Input
3	AI6	Analog input channels 6	Input
2	AI7	Analog input channels 7	Input
1	AGND	Analog Ground	Input

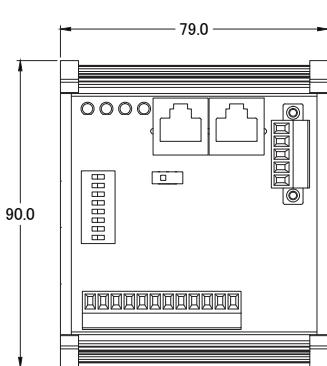
■ Dimensions: (Units: mm)



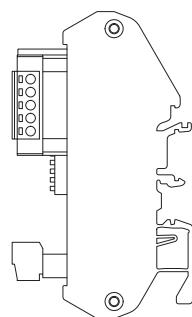
Top View



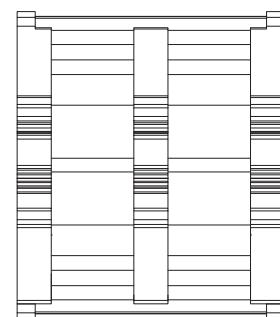
Left Side View



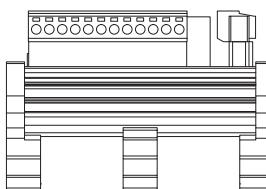
Front View



Right Side View



Rear View



Bottom View

Unit: mm

■ Ordering Information

MN-AD8-DIN CR	Distributed Motionnet 8-ch Analog Input Module (RoHS)
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■ Related Products

PISO-MN200(T/EC) CR	PCI Bus, Dual-line Motionnet Master Card (RoHS)
MN-SERVO-xxx(-EC) Series CR	Distributed Motionnet Single-axis Motion Control Modules (MJ3 / PA4 / YSV / DAA) (RoHS)
MN-2091U(-T) CR	Distributed Motionnet Single-axis Universal Motion Control Module (RoHS)
MN-MP4U-DIN CR	Distributed Motionnet Four-axis Universal Motion Control Module (RoHS)
MN-3254(T) CR / MN-D622-DIN CR	Distributed Motionnet 16-ch Isolated DI 16-ch Isolated DO Module (RoHS)
MN-3253(T) CR / MN-D640-DIN CR	Distributed Motionnet 32-ch Isolated DI Module (RoHS)
MN-3257(T) CR / MN-D604-DIN CR	Distributed Motionnet 32-ch Isolated DO Module (RoHS)
MN-DA2-DIN CR	Distributed Motionnet 2-ch Analog Output Module (RoHS)
MN-HUB4(EC) CR	Distributed Motionnet 4 Port Hub Module (RoHS)