

MN-DA2-DIN

Distributed Motionnet 2-ch Analog Output Module

Features

- Dual channel +/- 10 V analog output
- RJ-45 communication port
- 2 way isolation on power, communication
- 16-bit high resolution, 0.3mV min
- Software calibration of offset/gain
- Rapid output rate, Slew rate = 20 V / us
- High precision, DNL = +/-1 LSB, INL = +/-3 LSB

Introduction

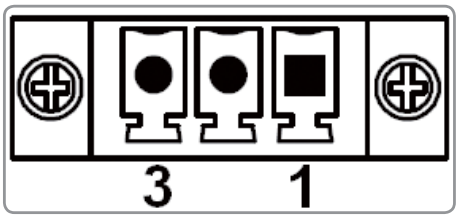
MN-DA2-DIN is a Motionnet 2-channel analog output I/O module. The max device capacity can be loaded 64 I/O modules on each Motionnet communication port. Thus, each port can be expended into 128 analog output points at once. The communication latency between two devices is 15.1μsec so that the max communication 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 output 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-DA2-DIN
LED Indicators	
Status	Communication state (Link, Error) Internal 3.3 V Power Termination Resistor Switch
Analog Output	
Channels	2
Range	+/- 10 V
Resolution	16-bit
Accuracy	DNL = +/- 1 LSB INL = +/- 3 LSB
Response Time	Slew rate: 20 V / us
Voltage Output Capability	+/- 20 mA Max per channel
Calibration	Offset: provided by software Gain: provided by software
Motionnet	
Transfer Speed	Selectable 2.5, 5, 10 or 20 Mbps by DIP Switch
Cyclic Time	15.1 μs per device (20 Mbps)
Power	
Input Range	24VDC +/-5% (1000 V isolated)
Consumption	3 W Max.
Mechanical	
Casing	Plastic
Dimensions (mm)	75mm x 90mm x 57 mm (W x L x H)
Installation	DIN-Rail Mounting
Environment	
Operating Temperature	0 ~ +60 °C
Storage Temperature	-20 ~ +80°C
Humidity	10 ~ 90% RH, Non-condensing

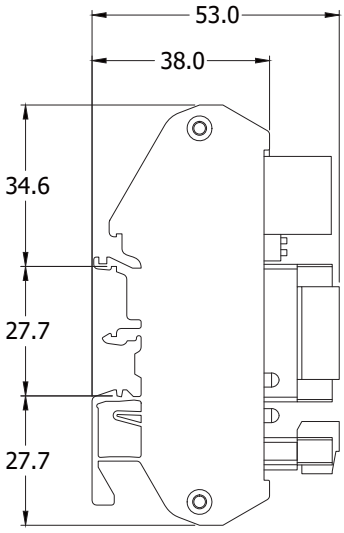
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Pin Assignments

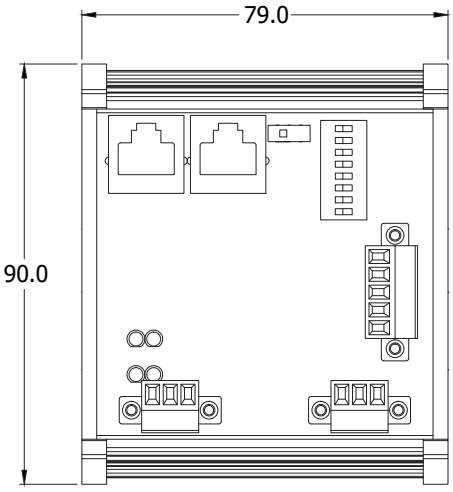


NO.	Name	Specifications	Signal Direction
CN2-CN3			
1	FGND	Frame Ground	None
2	AGND	Analog Ground	Output
3	AOx	Analog Output	Output

Dimensions: (Units: mm)



Left Side View



Front View

Ordering Information

MN-DA2-DIN CR	Distributed Motionnet 2-ch Analog Output Module (RoHS)

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-AD8-DIN CR	Distributed Motionnet 8-ch Analog Input Module (RoHS)
MN-HUB4(EC) CR	Distributed Motionnet 4 Port Hub Module (RoHS)

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