Features

- Dual channel +/- 10 V analog output
- 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
- Software calibration of offset/gain
- Rapid output rate, Slew rate = 20 V / us
- High precision, DNL = +/-1 LSB, INL = +/-3 LSB

MN-DA2-DIN
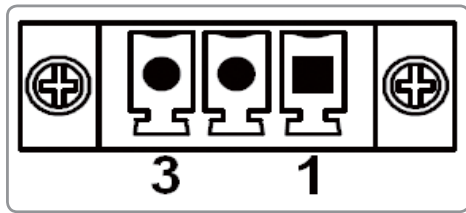### Distributed Motionnet 2-ch Analog Output Module

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

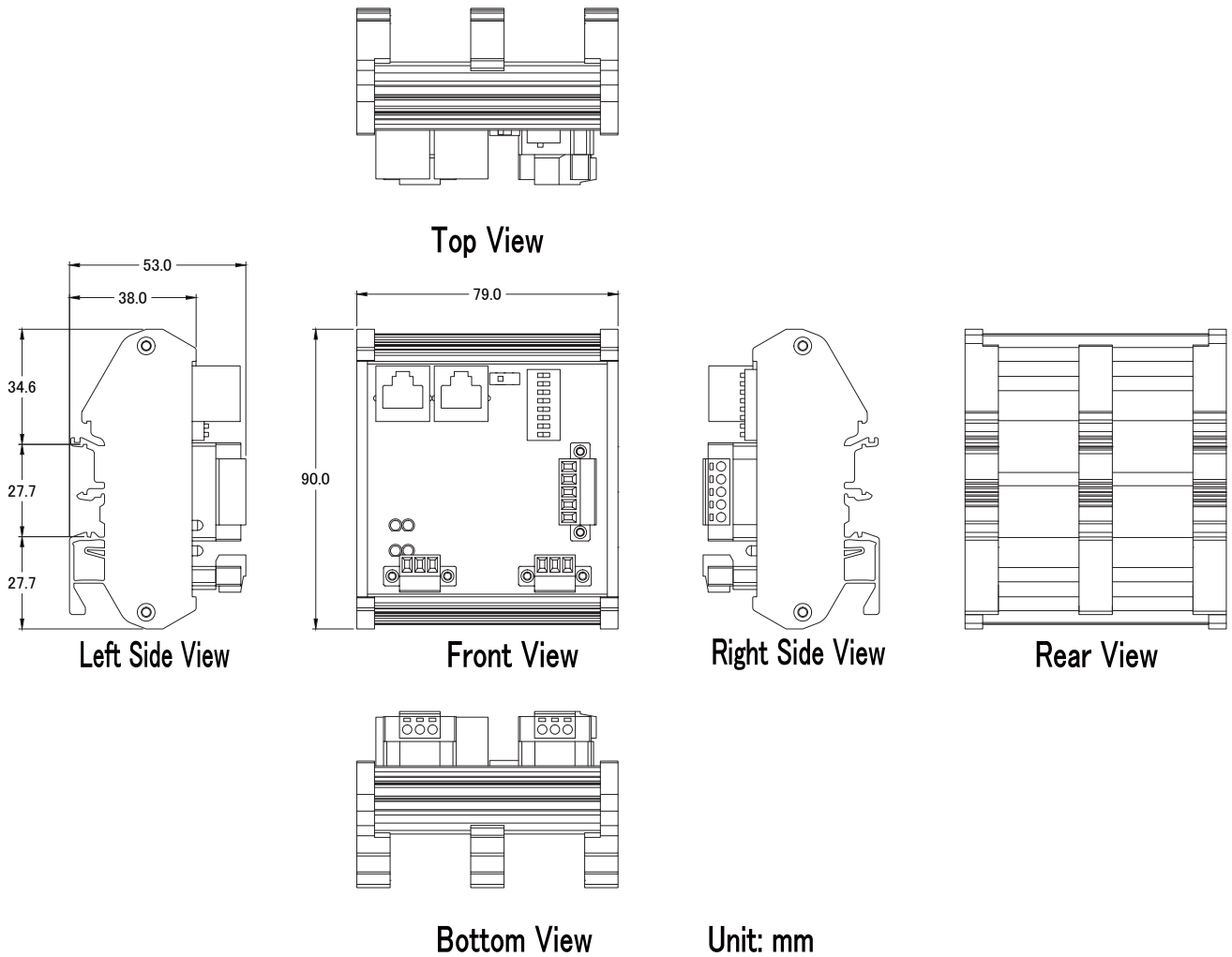| Model	MN-DA2-DIN
Analog Output	
Output Channels	2
Voltage Level	+/- 10 V
Load Current	+/- 20 mA Max per channel
Response Speed	Slew rate = 20 V / us
Output Accuracy	DNL = +/- 1 LSB INL = +/- 3 LSB
Calibration Function	Offset: provided by software Gain: provided by software
Interface	
LED Indicators	Communication stats(Link, Error) Internal 3.3 V Power Terminal resistor rwitch
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-DA2-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-CN3 Pin Assignments			
1	FGND	Frame Ground	None
2	AGND	Analog Ground	Output
3	AOx	Analog Output	Output

■ Dimensions: (Units: mm)

Top View

53.0
38.0
34.6
27.7
27.7

Left Side View

79.0
90.0

Front View

Right Side View

Rear View

Bottom View   Unit: mm

■ 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 Control Card (RoHS)
MN-SERVO Series CR MN-SERVO -EC Series CR	Distributed Motionnet Single-axis Motion Control Modules (with Spring Type Terminal Blocks; EC: with e-CON Mini-Clamp Connector) (RoHS)
MN-2091U CR MN-2091U-T CR	Distributed Motionnet Single-axis Universal Motion Control Module (RoHS)