

MN-3257/MN-3257T Distributed Motionnet 32-ch Isolated DO Module



Features:

- Maximum communication speed: 20 Mbps
- 32-ch isolated digital outputs
- Each Motionnet transfer Line: connect modules up to 64
- Designing isolation protection: power, communication, I/O
- LED Diagnostics for communication and I/O status
- Each port can be specified as NPN or PNP (12~24 V)
- The internal flywheel diode of each output ports can be connect to different sources of power individually.
- High current sinking capability (200 mA)

Introduction:

The MN-3257(T) is an I/O expansion device for Motionnet systems, and is equipped with 32 isolated digital output channels. Each Motionnet communication line can be connected to up to 64 modules, meaning that the I/O can be expanded to 2048 output channels. The communication time required by each MN-325x is 15.1 us. If 64 modules have been connected, signals for 2048 points on 64 modules can be sent and received within 0.97 msec. The update of the I/O status is completed automatically through the Motionnet system at a constant interval, and setting interrupts for specific input points that the customer wants to monitor can help prevent CPU time from being wasted by repetitive polling when there is nothing else for the issuing process to do. The internal flywheel diodes of each output port can be individually connected to different sources of power (each port is comprise of 8 I/O signals).

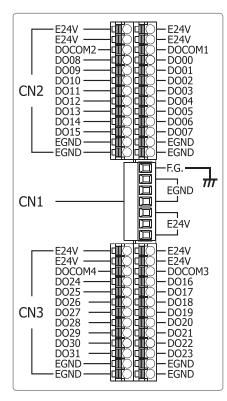
Specifications:

Digital Output		
Output Channels	32	
Output Type	Open Collector (Sink), with internal flywheediode	
Load Voltage	+30 VDC max.	
Load Current	200 mA max. for each channel	
Isolation Voltage	3000 Vrms	
Interface		
LED Indicators	Communication state (Link, Error) Input/output state Internal 3.3 V power Termination 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)	
Communication Connector	MN-3257: RJ-45 x 2 MN-3257T: 5-pin terminal block	
I/O Connector	13-pin pluggable Terminal block x 4	

Power				
Voltage Range	24 VDC (1000 V isolated)			
Power Consumption	2 W max.			
Protection	Reverse voltage and overcurrent protection			
Connection	7-pin removable terminal block			
Mechanical				
Case	Plastic			
Dimensions (W x H x D)	31 mm x 140 mm x 126.6 mm			
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			

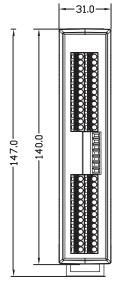
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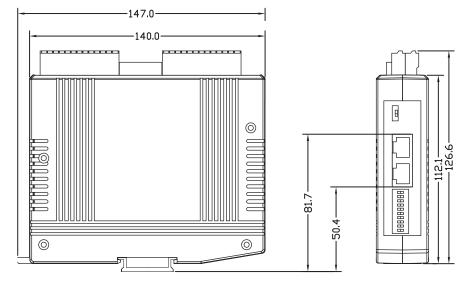
Pin Assignments:



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	12 ~ 13	EGND	External Ground	Connect to CN1		

Dimensions: (Units: mm)





Right Side View

Top View

Ordering Information/Accessories:

Front View

Model No.	Description	
MN-3257 CR	Distributed Motionnet 32-ch Isolated DO Module with RJ-45 Connector (RoHS)	
MN-3257T CR	Distributed Motionnet 32-ch Isolated DO Module with Terminal Block (RoHS)	
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)	