



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
- The internal flywheel diode of each output ports can be connect to different sources of power individually
- High current sinking capability (200 mA)











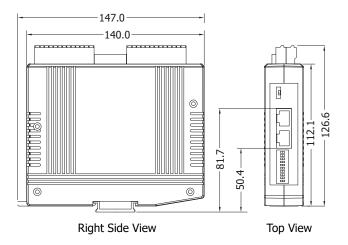
■ Introduction

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 comprised of 8 I/O signals).

Specifications

Model	MN-3257	MN-3257T			
Hardware					
Connector	13-Pin pluggable Terminal block x 4				
LED Indicators	LED Indicators				
Status	Communication state (Link, Error), Internal 3.3 V Power, Termination Resistor Switch, Input/Output state				
Digital Output					
Channels	32				
Туре	Open Collector (Sink), with internal flywheel diode				
Load Voltage	+30 VDC max.				
Load Current	200 mA max. for each channel				
Isolation	3000 Vrms				
Motionnet					
Communication Connectors	RJ-45 x 2	5-pin terminal block			
Transfer Speed	Selectable 2.5, 5, 10 or 20 Mbps by DIP Switch				
Cyclic Time	15.1 µs per de	vice (20 Mbps)			
Power					
Input Range	24 VDC (1000 V isolated)				
Consumption	2 W Max.				
Mechanical					
Casing	Plastic				
Dimensions (mm)	31 mm x 140 mm x 126.6 mm				
Installation	DIN-Rail mounting				
Environment					
Operating Temperature	0 ~ +60 °C				
Storage Temperature	-20 ∼ +80 °C				
Humidity	10 ~ 90% RH, Non-condensing				

Dimensions: (Units: mm)

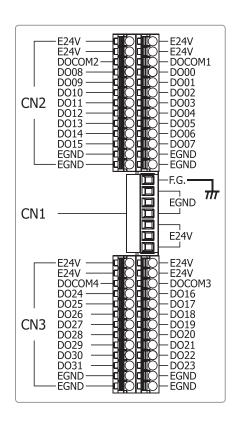


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Front View

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Pin Assignments



NO.	Pin Define	Specifications	I/O Define		
CN1	CN1				
1	FG	Frame Ground	-		
2 ~ 4	EGND	External Ground	Input		
5 ~ 7	E24V	External 24V (+)	Input		
CN2A (Right)					
1 ~ 2	E24V	External 24V (+)	Connect to CN1		
3	DOCOM1	Common Anode for Flywheel Diode of DO00~DO07	Input		
4 ~ 11	DO00 ~ DO07	Digital output channels 00 ~ 07	Output		
12 ~ 13	EGND	External Ground	Connect to CN1		
CN2B (Left)					
1 ~ 2	E24V	External 24V (+)	Connect to CN1		
3	DOCOM2	Common Anode for Flywheel Diode of DO08 ~ DO15	Input		
4 ~ 11	DO08 ~ DO15	Digital output channels 08 ~ 15	Output		
12 ~ 13	EGND	External Ground	Connect to CN1		
CN3A (Right)					
1 ~ 2	E24V	External 24V (+)	Connect to CN1		
3	DOCOM3	Common Anode for Flywheel Diode of DO16 ~ DO23	Input		
4 ~ 11	DO16 ~ DO23	Digital output channels 16 ~ 23	Output		
12 ~ 13	EGND	External Ground	Connect to CN1		
CN3B (Left)					
1 ~ 2	E24V	External 24V (+)	Connect to CN1		
3	DOCOM4	Common Anode for Flywheel Diode of DO24 ~ DO31	Input		
4 ~ 11	DO24 ~ DO31	Digital output channels 24 ~ 31	Output		
12 ~ 13	EGND	External Ground	Connect to CN1		

Ordering Information

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)

■ 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-D604-DIN CR	Distributed Motionnet 32-ch Isolated DO Module (RoHS)
MN-AD8-DIN CR	Distributed Motionnet 8-ch Analog Input 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)

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