



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

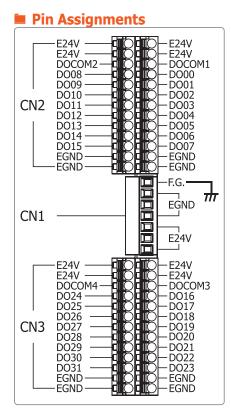
Introduction

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).

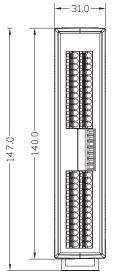
Specifications

Model	MN-3257	MN-3257T		
Digital Output				
Output Channels	32			
Output Type	Open Collector (Sink), with internal flywheel diode			
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: MN-3257T: 5-pi	RJ-45 x 2 n terminal block		
I/O Connector	13-pin pluggable	Terminal block x 4		

Model	MN-3257	MN-3257T		
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			

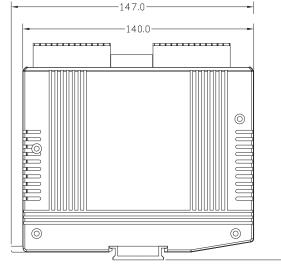


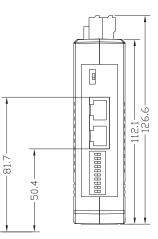
Dimensions: (Units: mm)



Front View

NO.	Pin Define	Specifications	I/O Define		
	CN1 Pin Assignments				
1	FG	Frame Ground	-		
2~4	EGND	External Ground	Input		
5~7	E24V	External 24V(+)	Input		
	CN2A (Right) Pin Assignments				
1~2	E24V	External 24V(+)	Connect to CN1		
3	DOCOM1	Common Anode for Flywheel Diode of D000~D007	Input		
4 ~ 11	DO00~DO07	Digital output channels 00~07	Output		
12 ~ 13	EGND	External Ground	Connect to CN1		
CN2B (Left) Pin Assignments					
1~2	E24V	External 24V(+)	Connect to CN1		
3	DOCOM2	Common Anode for Flywheel Diode of D008~D015	Input		
4 ~ 11	DO08~DO15	Digital output channels 08~15	Output		
12 ~ 13	EGND	External Ground	Connect to CN1		
CN3A (Right) Pin Assignments					
1~2	E24V	External 24V(+)	Connect to CN1		
3	DOCOM3	Common Anode for Flywheel Diode of D016~D023	Input		
4 ~ 11	DO16~DO23	Digital output channels 16~23	Output		
12 ~ 13	EGND	External Ground	Connect to CN1		
CN3B (Left) Pin Assignments					
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		





Right Side View

Top View

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)	