





NSM-208-M12/NSM-208PSE-M12

EN50155 8-port M12 Unmanaged Ethernet Switch

₱ Features

- Each port supports both 10/100 Mbps speed auto negotiation
- 8 PoE ports with Power Sourcing Equipment (PSE) operation (NSM-208PSE-M12)
- Over-temperature, over-current and over/under-voltage detection (NSM-208PSE-M12)
- 8-port 10/100 Mbps M12 type connector with IP40 protection
- EN50155/50121-3-2/50121-4, and NEMA TS2 compliant
- Automatic MDI/MDI-X crossover for plug-and-play
- Store-and-forward architecture
- Auto-detection of PD (powered devices) and automatic power management (NSM-208PSE-M12)











Introduction

The NSM-208PSE-M12/NSM-208-M12 is designed for industrial applications in harsh environments. The M12 connectors ensure tight, robust connections, and guarantees reliable operation, even for applications that are subject to high vibration and shock.

The NSM-208PSE-M12 PoE switch provides 8 fast Ethernet M12 ports with 8 IEEE 802.3af compliant PoE ports. The switch is classified as power source equipment (PSE) and provide up to 15.4 W of power per port.

The Ethernet switch supports IEEE 802.3/802.3u/802/3x with 10/100M, full/half-duplex, MDI/MDI-X auto-sensing, and provides an economical solution for your industrial Ethernet network.

The NSM-208-M12 provides a wide +12 VDC ~ +53 VDC power range to fit all the common power standards found in industrial automation, without external power converters. The wide power input lowers installation and maintenance costs.

■ Comparison Table of 8-port M12/IP67 Ethernet Switch

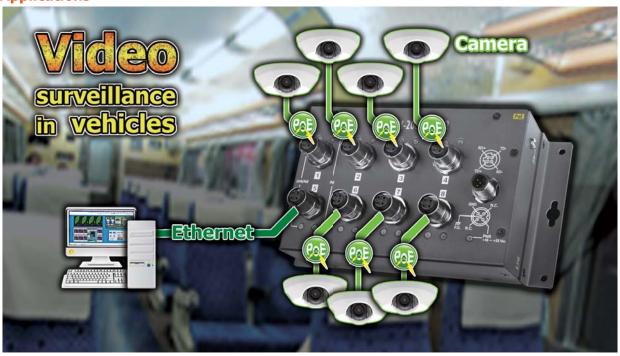


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■ Specifications

Model	NSM-208-M12 NSM-208PSE-M12				
LED Indicators					
Status	PWR, Link/Act	PWR, Link/Act, Power Device is detected			
Ethernet					
Ports	8 x M12 connector, 10/100Base-TX				
Standards	IEEE 802.3, 802.3u, 802.3x, 10/100 Base-T(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection				
Processing Type	Store & forward				
MAC Table	1024				
Memory Bandwidth	3.2 Gbps				
Frame Buffer Memory	512 Kbit				
Flow Control	IEEE 802.3x flow control, back pressure flow control				
Isolation	1500 Vrms 1 minute				
Connector	Female 4-Pin shielded M12 D-coding connector				
PoE Technology					
PoE Compliance	-	100% IEEE 802.3at compliant			
PoE Power	-	Up to 30 watts per channel			
PoE Operation	-	Automatic detection and power management			
PoE Pin Assignments	V+ (pin 1, 2), V-(pin 3, 6)				
PoE Disconnect Mode	- DC disconnect				
PoE Voltage	- +52 VDC				
Power					
Reverse Polarity Protection	Yes				
Input Range	+12 VDC ~ +53 VDC	+46 VDC ~ +53 VDC			
Consumption	0.12 A @ 48 VDC	2 A @ 48 VDC without PD loading 3.0 A @ 48 VDC with PD full loading			
Mechanical					
Casing	Metal				
Dimensions (mm)	190 x 100 x 56 (W x L x H)				
Installation	Wall Mounting				
Ingress Protection Rating	IP40				
Environment					
Operating Temperature	-40 °C ~ +75 °C				
Storage Temperature	-40 °C ~ +85 °C				
Humidity	10% ~ 90% RH, non-condensing				

■ Applications



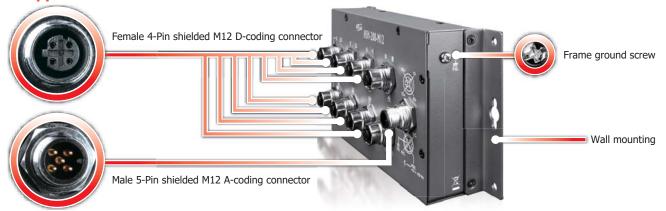
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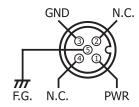
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Appearance

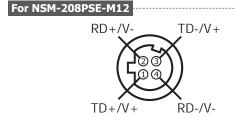


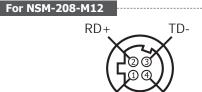
■ Pin Functions for Power Input

External power supply is connected using the M12 A-coding:
PWR: Power input and should be connected to the power supply (+)
GND: Ground and should be connected to the power supply (-)
F.G.: F.G. stands for Frame Ground (protective ground). It is optional.
If you use this pin, it can reduce EMI radiation; improve EMI
performance and EMS protection.



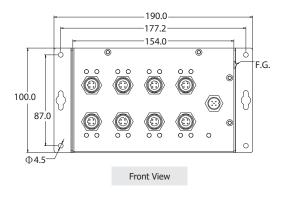
Pin Functions for Ethernet Port

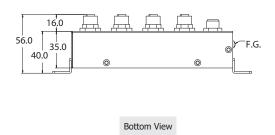




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■ Dimensions (Units: mm)





■ Ordering Information

NSM-208-M12 CR	EN50155 8-port M12 Unmanaged Ethernet Switch (RoHS) Includes M12D-4P-IP68 x 8, A-CAP-M12M x 8, M12A-5P-IP68 x 1, A-CAP-M12F x 1 and 4SIX1K0000003 Wall mo	unt
	EN50155 8-port M12 Unmanaged PoE Ethernet Switch (RoHS)	
CR	Includes M12D-4P-IP68 x 8, A-CAP-M12M x 8, M12A-5P-IP68 x 1, A-CAP-M12F x 1 and 4SIX1K0000003 Wall	mo

Accessories

M12D-4P-IP68	A-CAP-M12M	M12A-5P-IP68	A-CAP-M12F			
4PIO1K0000001	4PIO1K0000002	4PIO1K0000003	4PIO1K0000004			
You need to choose high quality M12 cable, please refer to https://www.balluff.com/						

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