

NS-208-M12-IP67 NEW

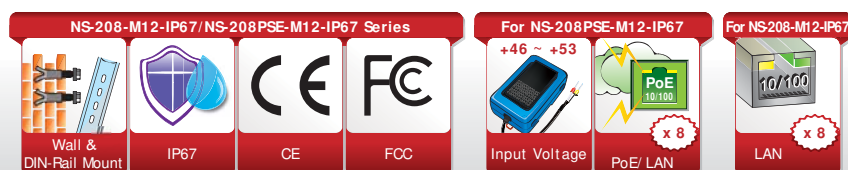
8-port M12 Unmanaged Ethernet Switch with IP67

NS-208PSE-M12-IP67 NEW

8-port M12 Unmanaged PoE Ethernet Switch with IP67

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Unmanaged Ethernet Switches



Features ▶▶▶

- Each port supports both 10/100 Mbps speed auto negotiation
- 8 PoE ports with Power Sourcing Equipment (PSE) operation (NSM-208PSE-M12-IP67)
- Over-temperature, over-current and over/under-voltage detection (NSM-208PSE-M12-IP67)
- 8-port 10/100 Mbps M12 type connector with IP67 protection
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- 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-IP67)
- Supports operating temperatures from -40 °C ~ +75 °C

Introduction

The NS-208PSE-M12-IP67/NS-208-M12-IP67 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 NS-208PSE-M12-IP67 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 NS-208-M12-IP67 provides a wide +12 V_{dc} ~ +53 V_{dc} 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.

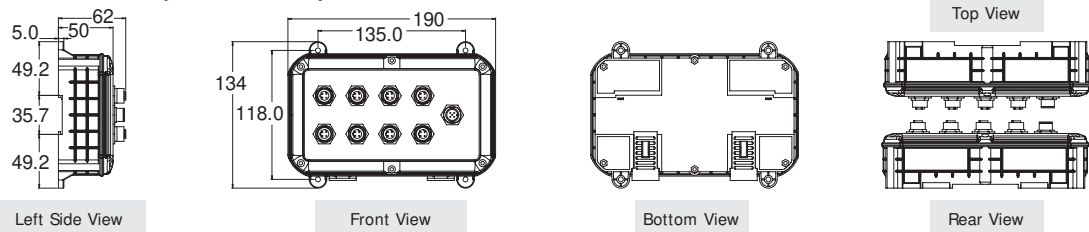
Comparison Table of 8-port M12 Ethernet Switch

Mode Name	NSM-208PSE-M12	NSM-208PSE-M12-IP67	NS-208PSE-M12-IP67	NS-208-M12-IP67
PoE	802.3af x 8	—	802.3af x 8	—
Input Voltage Range	+46 V _{dc} ~ +53 V _{dc}	+12 V _{dc} ~ +53 V _{dc}	+46 V _{dc} ~ +53 V _{dc}	+12 V _{dc} ~ +53 V _{dc}
Operating Temperature	-40 °C ~ +75 °C	-40 °C ~ +75 °C	-40 °C ~ +75 °C	-40 °C ~ +75 °C
Casing	Metal with IP40	Metal with IP40	Plastic with IP67	Plastic with IP67
Installation	Wall Mounting	Wall Mounting	DIN-Rail Mounting or Wall Mounting	DIN-Rail Mounting or Wall Mounting
Dimensions (W x L x H)	190 mm x 56 mm x 100 mm	190 mm x 56 mm x 100 mm	190 mm x 62 mm x 134 mm	190 mm x 62 mm x 134 mm

Specifications

Models	NS-208PSE-M12-IP67		NS-208-M12-IP67
Technology			
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 Addresses	1024		
Memory Bandwidth	3.2 Gbps		
Frame Buffer Memory	512 Kbit		
Flow Control	IEEE 802.3x flow control, back pressure flow control		
Interface			
LED Indicators	PWR, Link/Act, Power Device is detected		PWR, Link/Act
Ethernet Isolation	1500 V _{rms} 1 minute		
Connector	Female 4-Pin shielded M12 D-coding connector x 8		
Power Input			
Input Voltage Range	+ 46 V _{DC} ~ + 53 V _{DC}		+ 12 V _{DC} ~ + 53 V _{DC}
Power Consumption	0.12 A @ 48 V _{DC} without PD loading 3.0 A @ 48 V _{DC} with PD full loading		0.12 A @ 48 V _{DC}
Protection	Power reverse polarity protection		
Connector	Male 5-Pin shielded M12 A-coding connector x 1		
PoE Technology			
PoE Compliance	100% IEEE 802.3af compliant		–
PoE Classification	PSE (Power Sourcing Equipment)		–
PoE Voltage	+ 48 V _{DC} depending on power input		–
PoE Power	Up to 15.4 W per port		–
PoE Operation	Automatic detection and power management		–
PoE Pin Assignments	V+ (Pin 1, 2), V- (Pin 3, 6) for RJ-45		–
Mechanical			
Casing	Plastic with IP67		
Dimensions (W x L x H)	190 mm x 62 mm x 134 mm		
Installation	DIN-Rail Mounting or Wall Mounting		
Environmental			
Operating Temperature	-10 °C ~ + 60 °C (Protection rating IP67) -40 °C ~ + 75 °C (Protection rating IP66)		
Storage Temperature	-10 °C ~ + 60 °C (Protection rating IP67) -40 °C ~ + 75 °C (Protection rating IP66)		
Ambient Relative Humidity	100% RH for Operating Temperature -10 °C ~ + 60 °C 10% ~ 90% RH, non-condensing for Operating Temperature -40 °C ~ + 75 °C		

Dimensions (Units: mm)



Ordering Information

NS-208-M12-IP67 CR	8-port M12 Unmanaged Ethernet Switch with IP67 (RoHS) Includes M12D-4P-IP68 x 8, A-CAP-M12M x 8, M12A-5P-IP68 and A-CAP-M12F x 1
NS-208PSE-M12-IP67 CR	8-port M12 Unmanaged PoE Ethernet Switch with IP67 (RoHS) Includes M12D-4P-IP68 x 8, A-CAP-M12M x 8, M12A-5P-IP68 and A-CAP-M12F x 1

Accessories

MDR-60-48	48 V/1.25 A, 60 W Power Supply with DIN-Rail Mounting
DIN-KA52F-48	48 V/0.52 A, 25 W Power Supply with DIN-Rail Mounting
KA52F-48	48 V/0.52 A, 25 W Power Supply

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 http://www.balluff.ca/Balluff			