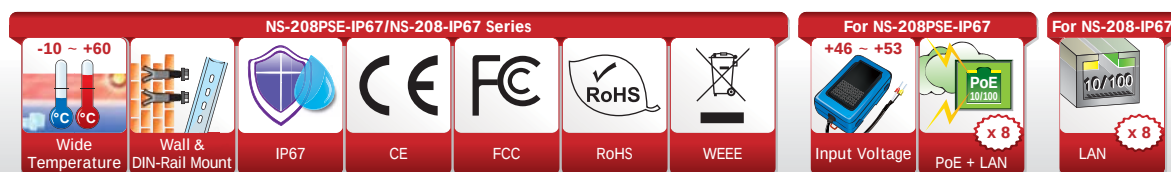




3

Unmanaged Ethernet Switches



Features ▶▶▶

- Automatic MDI/MDI-X crossover for plug-and-play
- Store-and-forward architecture
- Each port supports both 10/100 Mbps speed auto negotiation
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- Rugged RJ-45 connector for anti-vibration and shock
- IP67 grade protection approval
- 8 PoE ports with Power Sourcing Equipment (PSE) operation (NS-208PSE-IP67 series)
- Auto-detection of PD (powered devices) and automatic power management (NS-208PSE-IP67 series)
- Over-temperature, over-current and over/under-voltage detection (NS-208PSE-IP67 series)

Introduction

The NS-208PSE-IP67/NS-208-IP67 is designed for industrial applications in harsh environments. The rugged RJ-45 ensures tight, robust connections, and guarantees reliable operation, even for applications that are subject to high vibration and shock.

The NS-208PSE-IP67 PoE switch provides 8 fast Ethernet 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.

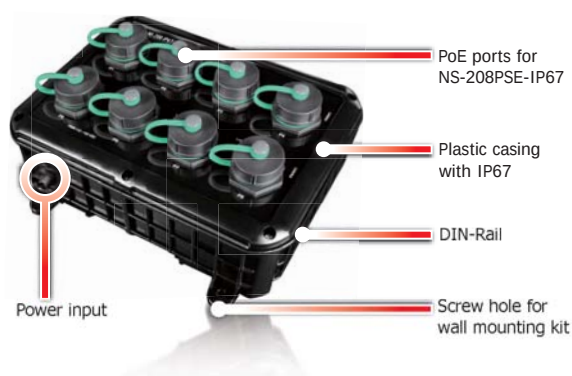
Comparison Table of 5/8-port IP67 Ethernet Switch

Mode Name	NS-205-IP67	NS-205-IP67/DIN	NS-205PSE-IP67	NS-205PSE-IP67/DIN	NS-208PSE-IP67	NS-208-IP67
PoE	–		802.3af x 4		802.3af x 8	–
Input Voltage Range	+10 Vdc ~ +30 Vdc (1 kV Isolated)		+46 Vdc ~ +53 Vdc			+12 Vdc ~ +53 Vdc
Installation	Wall Mounting	DIN-Rail Mounting or Wall Mounting	Wall Mounting	DIN-Rail Mounting or Wall Mounting	DIN-Rail Mounting or Wall Mounting	
Dimensions (W x L x H) (Unit: mm)	85 x 76 x 137	89 x 90 x 138	85 x 76 x 137	89 x 90 x 138	190 x 155 x 104	

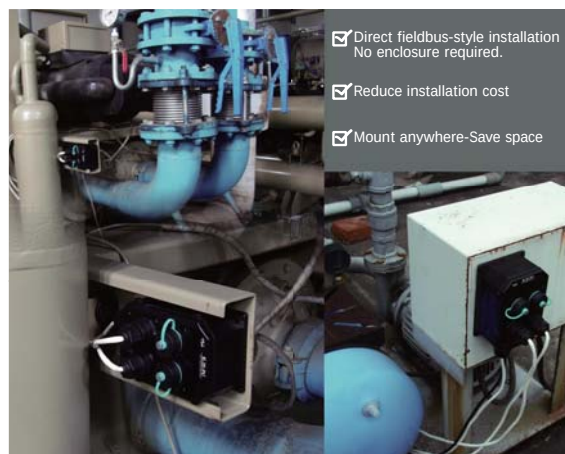
Specifications

Models	NS-208PSE-IP67		NS-208-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; wire speed switching			
MAC Addresses	1024			
Memory Bandwidth	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	Rugged RJ-45			
Power Input				
Input Voltage Range	+46 V _{DC} ~ +53 V _{DC} for PoE output		+12 V _{DC} ~ +53 V _{DC}	
Power Consumption	0.05 A @ 48 V _{DC} without PD loading; 1.45 A @ 48 V _{DC} with PD full loading		0.12 A @ 24 V _{DC}	
Protection	Power reverse polarity protection			
Connector	IP67 PWR Plug			
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 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		—	
Mechanical				
Casing	Plastic (Flammability UL 94V-0)			
Environmental Rating	Protection rating IP67 for Operating Temperature -10 °C ~ +60 °C			
	Protection rating IP66 for Operating Temperature -40 °C ~ +75 °C			
Dimensions (W x L x H)	190 mm x 155 mm x 104 mm			
Installation	DIN-Rail Mounting or Wall Mounting			
Environment				
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			

Appearance



Applications



Industrial IP67 8-port Unmanaged Ethernet Switch

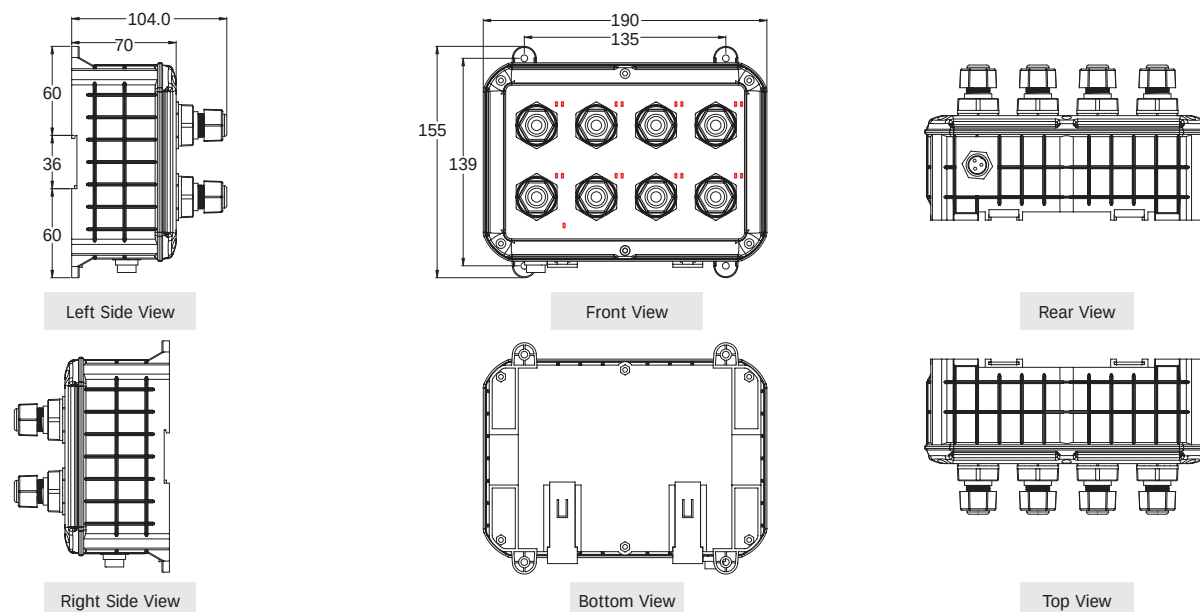
- NS-208-IP67
- NS-208PSE-IP67

PoE

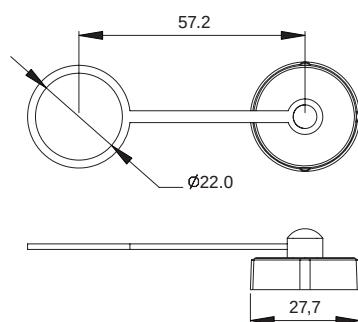
IP67 grade protection approval
Rugged RJ-45 connector for anti-vibration and shock

Dimensions (Units: mm)

NS-208PSE-IP67 / NS-208-IP67

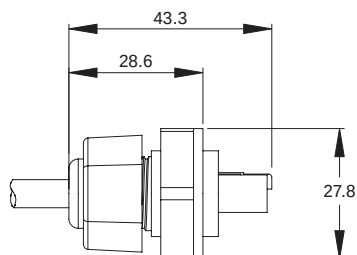


IP67 Ethernet Cap with Tether



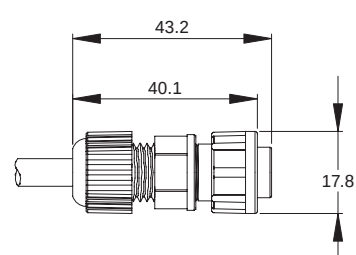
IP67 Ethernet Plug

Cable Dia:
Max. 7.0 mm
Min. 5.5 mm



IP67 PWR Plug

Cable Dia:
Max. 6.5 mm
Min. 5.0 mm



Ordering Information

NS-208PSE-IP67 CR	Industrial 8-port unmanaged IP67 Ethernet switch with PoE Includes IP67 RJ-45 Plug x 8, IP67 Power Plug x 1, Cap with Tether x 8 (RoHS)
NS-208-IP67 CR	Industrial 8-port unmanaged IP67 Ethernet switch Includes IP67 RJ-45 Plug x 8, IP67 Power Plug x 1, Cap with Tether x 8 (RoHS)

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
DR-120-48	48 V/2.5 A, 120 W Power Supply with DIN-Rail Mounting

IP67 RJ-45 Plug 4SASO-001	IP67 Power Plug 4SIO1K0000016	Cap with Tether 4SASO-0004
---	---	--