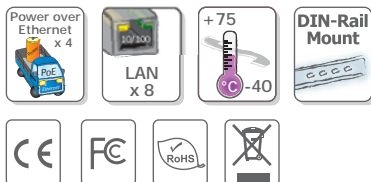# NS-208PSE-4/NSM-208PSE-4 NEW

8-Port Industrial 10/100 Mbps Ethernet with 4-PoE (PSE) Switch (RoHS)

Highlight Information ▶▶▶▶

NS-208PSE-4 Series   NSM-208PSE-4 Series

Power over Ethernet x 4 | PoE | 10/100 | LAN x 8 | +75 °C -40 | DIN-Rail Mount

CE | FC | RoHS

● **Introduction**

The NS-208PSE-4/NSM-208PSE-4 is an 8-port unmanaged Ethernet with 4-PoE (Power-over-Ethernet) switch, it supports 4-PoE port which are classified as power source equipments (PSE).The NS-208PSE-4/NSM-208PSE-4 makes centralized power supply come true and provides up to 15.4 watts of power per port. The NS-208PSE-4/NSM-208PSE-4 can be used to power IEEE802.3af compliant powered devices (PD) by Ethernet cable and eliminates the need for additional power wiring.

● **Features**

- Automatic MDI/MDI-X crossover for plug-and-play
- Each port supports both 10/100Mbps speed auto negotiation
- Store-and-forward architecture
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- 4 PoE ports with Power Sourcing Equipment (PSE) operation

- Auto-detection of PD (powered devices) and automatic power management
- Over-temperature, over-current and over/under-voltage detection
- Supports operating temperatures from –40 ~ +75°C
- DIN-Rail

● Specifications

Models	NS-208PSE Series	NSM-208PSE Series
Technology		
Standards	IEEE 802.3, 802.3u, 802.3x ,802.3af (Power over Ethernet)	
Processing Type	Store & forward, wire speed switching	
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		
RJ-45 Ports	10/100 Base-T(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection	
LED Indicators	Power, Link/Act , Power Device is detected	
Ethernet Isolation	1500 V_{rms} 1 minute	
+/-6 kV EMS Protection	Yes	
Power Input		
Input Voltage Range	+46 ~ +55 V_{DC} for PoE output	
Power Consumption	0.12 A @ 48 V_{DC} with PoE Off	
Protection	Power reverse polarity protection	
Frame Ground for EMS Protection	Yes	
Connection	3-Pin Removable Terminal Block	
PoE Output		
PoE Compliance	100% IEEE 802.3af compliant	
PoE Classification	PSE (Power Sourcing Equipment)	
PoE Voltage	+46 ~ +55 V_{DC} depending on power input	
PoE Power	Up to 15.4 watts per channel	
PoE Operation	Automatic detection and power management	
Mechanical		
Casing	Plastic (Flammability UL 94V-0)	Metal (IP30 Protection)
Dimensions (W x L x H)	31 mm x 157 mm x 113 mm	25 mm x 168 mm x 119 mm
Installation	DIN-Rail	
Environmental		
Operating Temperature	-40 °C ~ +75 °C	
Storage Temperature	-40 °C ~ +85 °C	
Ambient Relative Humidity	10% ~ 90% RH, non-condensing	

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Unmanaged Ethernet Switches   NS-208PSE-4/NSM-208PSE-4

● LED Functions

LED Indicator Functions

LED	Color	Description
Power	Red On	Power is On
	Red Off	Power is Off
Port 1 ~ Port 4	Orange On	Power Device is detected
Port 1 ~ Port 8	Green On	Link/Act

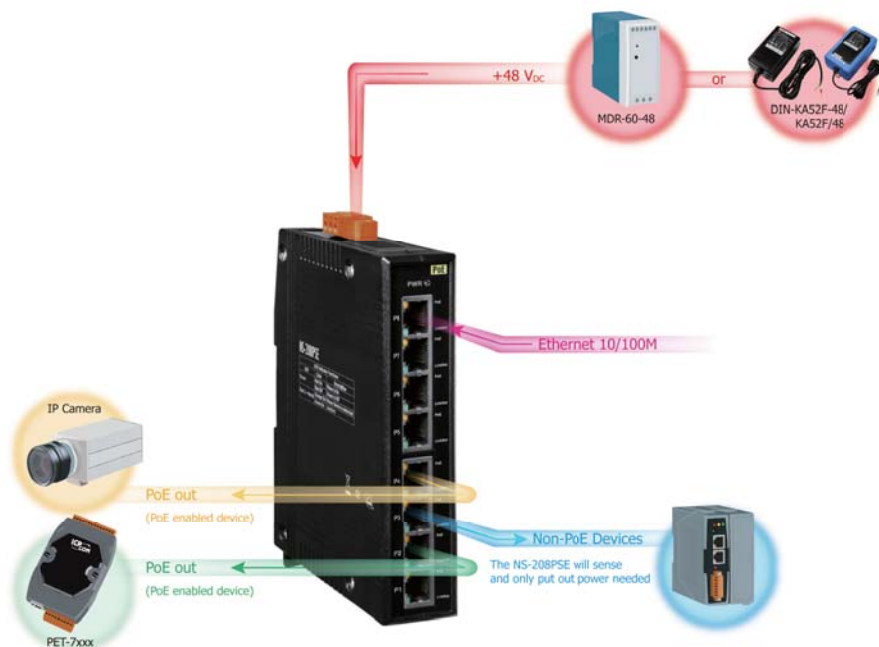## ● Pin Function for Terminal Block

External power supply is connected using the removable terminal block:

PWR : Power input (+45 ~ +55 VDC) and should be connected to the power supply (+)

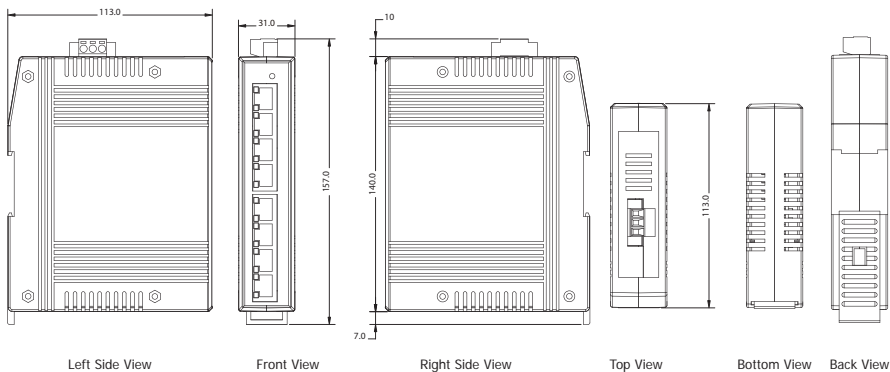**GND**: Ground and should be connected to the power supply (-)

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 ESD protection.
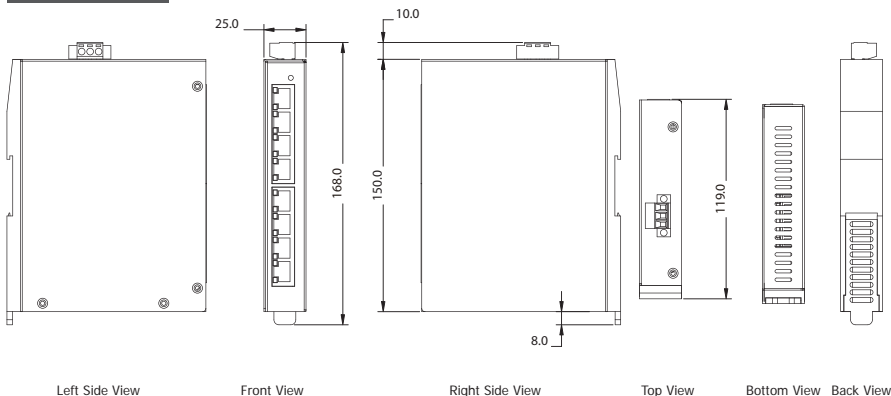
● Applications

● Dimensions (Unit: mm)

NS-208PSE Series

| Left Side View | Front View | Right Side View | Top View | Bottom View | Back View |

NSM-208PSE Series

| Left Side View | Front View | Right Side View | Top View | Bottom View | Back View |

● Ordering Information

NS-208PSE-4 CR	8-Port Industrial 10/100 Mbps Ethernet with 4-PoE (PSE) Switch (RoHS)
NSM-208PSE-4 CR	8-Port Industrial 10/100 Mbps Ethernet with 4-PoE (PSE) Switch; Metal Casing (RoHS)

● Accessories

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

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Unmanaged Ethernet Switches

NS-208PSE/NSM-208PSE