

# NSM-205PSE-12V

## 5-Port 10/100 Mbps PoE (PSE) Ethernet Switch with 12 VDC Input



### Introduction

The NSM-205PSE-12V is a 5-port unmanaged PoE (Power-over-Ethernet) Industrial Ethernet switch; it supports 4 PoE ports which are classified as power source equipments (PSE). The NSM-205PSE-12V makes centralized power supply come true and provides up to 15.4 watts of power per PSE port.

The NSM-205PSE-12V is designed with 12 VDC to 48 VDC boost for PoE application where 48 VDC power supply is not available.

### 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
Power Input +12 VDC
Supports operating temperatures from -40 ~ +75°C
DIN-Rail

### Specifications

Models	NSM-205PSE-12V
<b>Technology</b>	
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	IEEE802.3x flow control, back pressure flow control
<b>Interface</b>	
RJ45 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 Vrms 1 minute
<b>Power Input</b>	
Input Voltage Range	+11.5 ~ +14 VDC
Power consumption	7A @ 12 VDC with PD full loading
Connector	3-Pin Removable Terminal Block
<b>PoE Output (Port1 ~ 4)</b>	
PoE Compliance	100% IEEE 802.3af compliant
PoE Classification	PSE (Power Sourcing Equipment)
PoE Voltage	+48 VDC
PoE Power	Up to 15.4 watts per channel
PoE Operation	Automatic detection and power management
<b>Mechanical</b>	
Casing	Metal (IP30 Protection)
Dimensions (W x L x H)	25 mm x 168 mm x 119 mm
Installation	DIN-Rail
<b>Environmental</b>	
Operating Temperature	-40 °C ~ +75 °C
Storage Temperature	-40 °C ~ +85 °C
Ambient Relative Humidity	10% ~ 90% RH, non-condensing

### LED Indicator Functions:

LED	Color	Description
Power	Red On	Power is On
	Red Off	Power is Off
Port1 ~ 4	Orange On	Power Device is detected
	Green On	Link/Act
Port5	Yellow On	Link to 100 Mbps
	Green On	Link/Act

### Pin Function for Terminal Block:

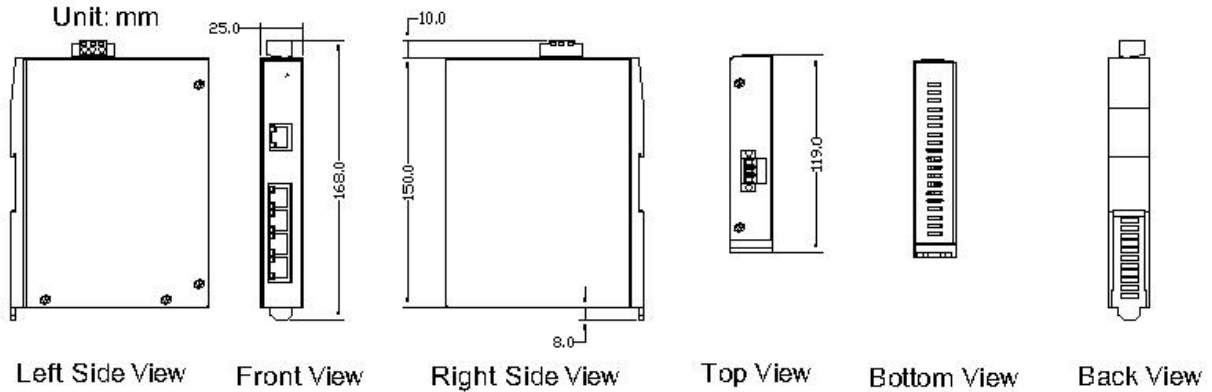
External power supply is connected using the removable terminal block:

**PWR** : Power input (+12 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.

### Dimensions: NSM-205PSE-12V



### Ordering information

NSM-205PSE-12V CR	Unmanaged 5-Port 10/100 Mbps PoE(PSE) Ethernet Switch with Metal Casing; 12 VDC Input
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