NS-205PSE-24V/NSM-205PSE-24V
5-Port 10/100 Mbps PoE (PSE) Ethernet Switch with 24 VDC Input

Introduction

The NS-205PSE-24V/NSM-205PSE-24V 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 NS-205PSE-24V/NSM-205PSE-24V makes centralized power supply come true and provides up to 15.4 watts of power per PSE port.

The NS-205PSE-24V/NSM-205PSE-24 is designed with 24 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, +18 ~ +32 VDC
Supports operating temperatures from –40 ~ +75°C
DIN-Rail

Specifications

Models	NS-205PSE-24V	NSM-205PSE-24V
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	IEEE802.3x flow control, back pressure flow control	
Interface		
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 , 10/100M, Power Device is detected	
Ethernet Isolation	1500 Vrms 1 minute	
+/- 6kV EMS Protection	Yes	
Power Input		
Input Voltage Range	+18 ~ +32VDC for PoE output	
Power consumption	0.24A@ 24 VDC without PD loading; 3.2A@ 24 VDC with PD full loading; 4.6A@ 18 VDC with PD full loading	
Protection	Power reverse polarity protection	
+/- 6kV EMS Protection	Yes	
Connection	3-Pin Removable Terminal Block	
PoE Output (Port1 ~ 4)		
PoE Compliance	100% IEEE 802.3af compliant	
PoE Classification	PSE (Power Sourcing Equipment)	
PoE Voltage	+48 VDC 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	

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

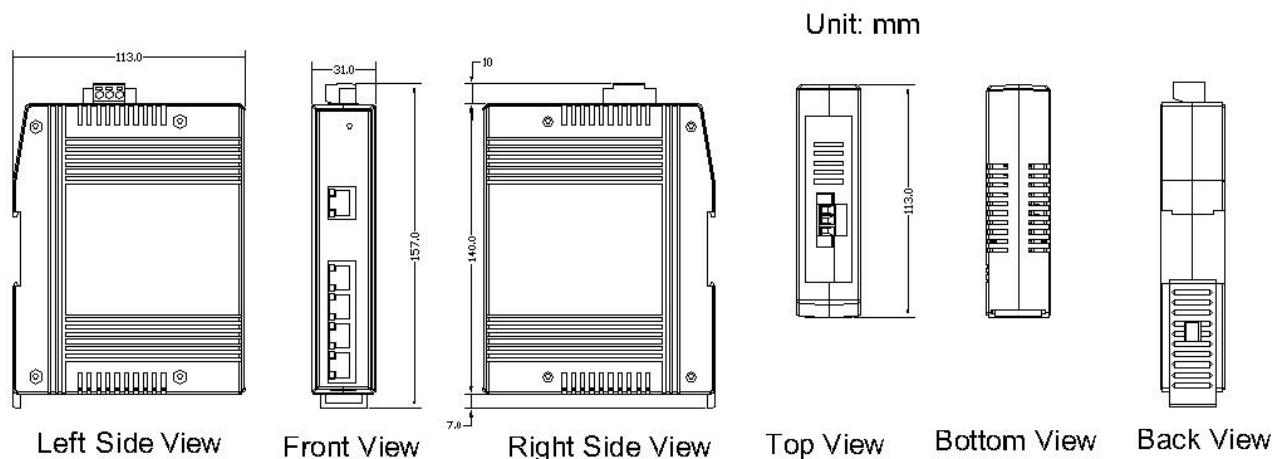### Pin Function for Terminal Block:

External power supply is connected using the removable terminal block:

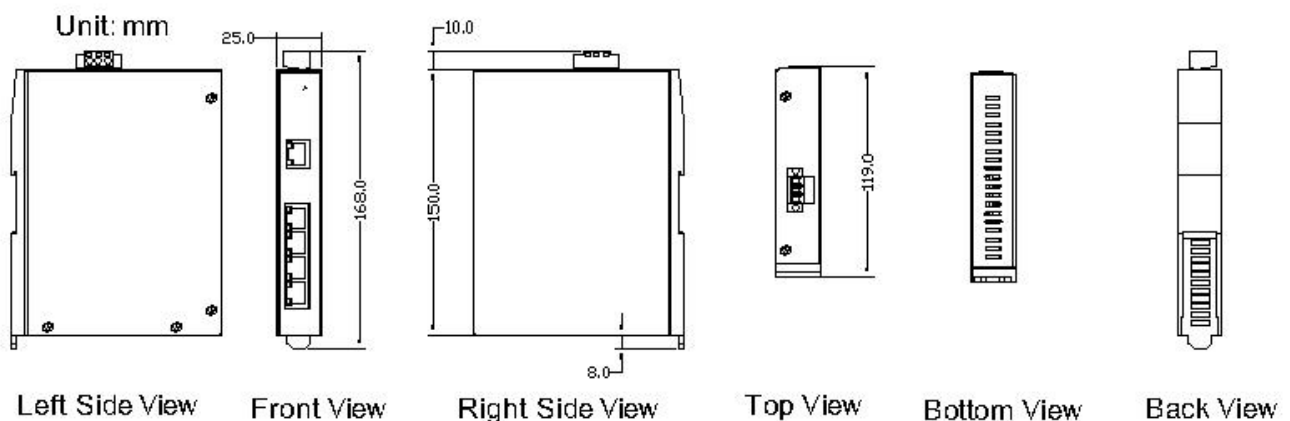**PWR** : Power input (+18 ~ +32 VDC) and should be connected to the power supply (+)

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: NS-205PSE-24V

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

Dimensions: NSM-205PSE-24V

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

Ordering information

NS-205PSE-24V CR	Unmanaged 5-Port 10/100 Mbps PoE(PSE) Ethernet Switch; 24 VDC Input
NSM-205PSE-24V CR	Unmanaged 5-Port 10/100 Mbps PoE(PSE) Ethernet Switch with Metal Casing; 24 VDC Input