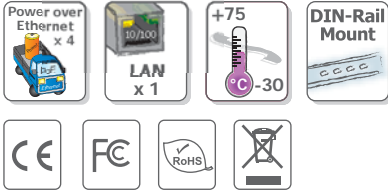


NS-205PSE



Unmanaged Ethernet switch with 4 PoE and 1 RJ-45 uplink (RoHS)

Highlight Information ▶▶▶



● Introduction

The NS-205PSE 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 makes centralized power supply come true and provides up to 15.4 watts of power per port. The NS-205PSE can be used to power IEEE 802.3af 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 10/100 Mbps speed auto negotiation
- Store-and-forward architecture
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- 3.2 Gbps high performance memory bandwidth
- Power Inputs +46V ~ +55V DC
- Supports operating temperatures from -30 ~ +75°C
- DIN-Rail
- IEEE 802.3af Compliant PoE Ports
 - Four 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

● Specifications

Technology	
Standards	IEEE 802.3, 802.3u, 802.3x, 802.3af (Power over Ethernet)
Processing Type	Store & forward wire speed switching
MAC Addresses	1K
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	10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDIX connection
LED Indicators	Power, 10/100M, Link/Act
Ethernet Isolation	1500 Vrms 1 minute
Frame Ground for EMS Protection	Yes
Cable	Ethernet: 2-pair UTP/STP Cat.3,4,5, EIA/TIA-568 100-ohm
	Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm
Power	
Input Voltage Range	+46V ~ +55V DC for PoE output
Power Consumption	1.3A@48VDC, +/- 5% arrowed with PoE
Protection	Power reverse polarity protection
Frame Ground for EMS Protection	Yes
Connection	3-Pin Removable Terminal Block
Mechanical	
Case	Plastic
Flammability	UL 94V-0
Dimensions	33mm x 99mm x 107mm (W x H x D)
Installation	DIN-Rail
Environmental	
Operating Temperature	-30°C ~ +75°C
Storage Temperature	-40°C ~ +85°C
Ambient Relative Humidity	10% to 90% non-condensing

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
	Green On	Link/Act
Port 5	Yellow On	Link to 100 Mbps
	Green On	Link/Act

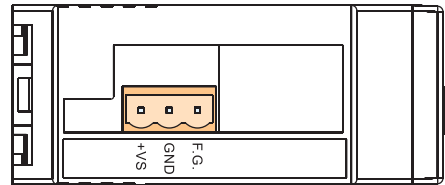
Pin Function for Terminal Block

External power supply is connected using the removable terminal block:

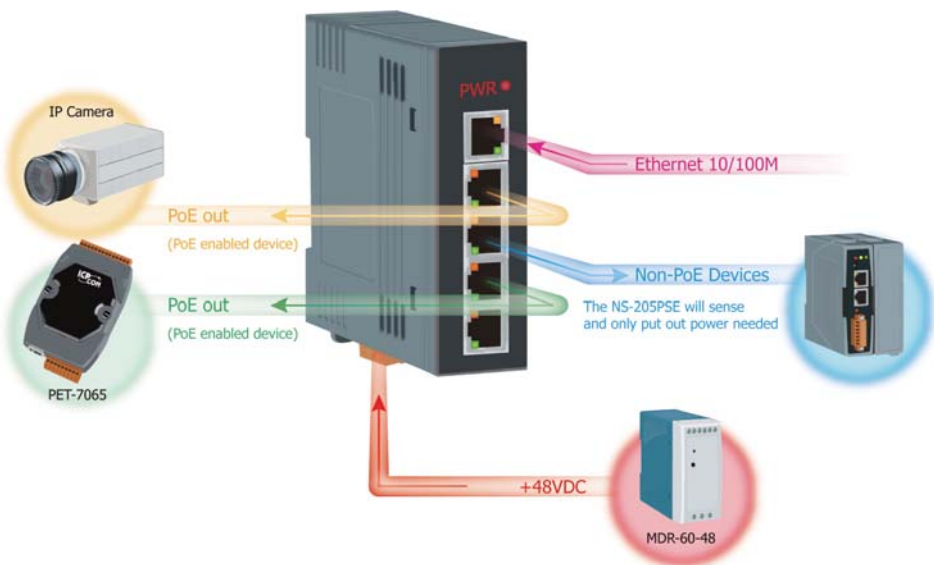
+Vs : Power input (+46V ~ +55V) and should be connected to the power supply (+)

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

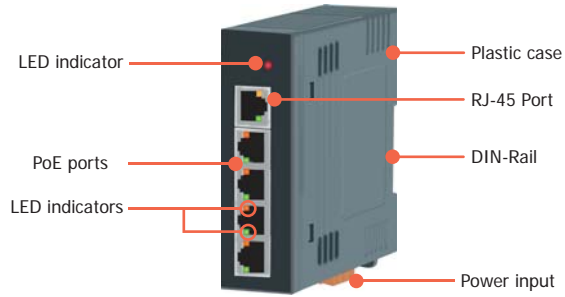
F.G. : F.G. stands for Frame Ground (protective ground). It is optional. If you use this pin, it can reduce EMI radiation; improve EMI performance and ESD protection.



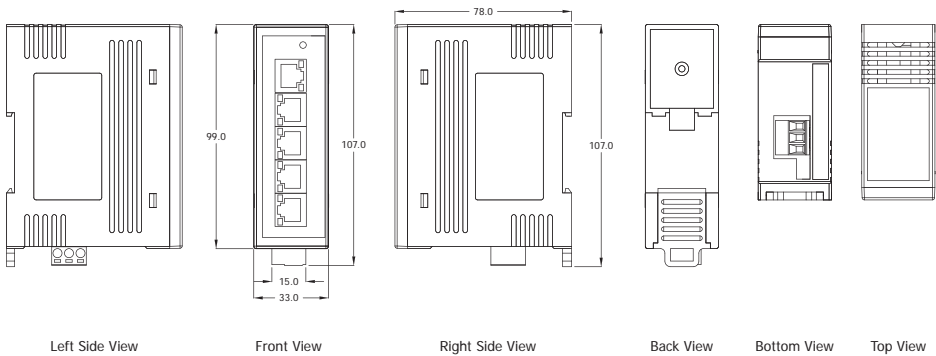
Applications



● Appearance



● Dimensions (Unit: mm)



● Ordering Information

NS-205PSE CR	Unmanaged Ethernet switch with 4 PoE and 1 RJ-45 uplink (RoHS)
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● Accessories

LBCSP-142-150-48	48V/3.12A Power Supply (With DIN-Rail mounting)
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