NS-205PSE NEW

Unmanaged Ethernet Switch with 4-PoE Port and 1 RJ-45 Uplink (RoHS)

Highlight Information ▶▶▶▶

Power over Ethernet x 4

LAN x 1

+75 °C -40

DIN-Rail Mount

CE FC RoHS

● Introduction

The NS-205PSE is a 5-Port unmanaged PoE (Power-over-Ethernet) Industrial Ethernet Switch, it supports 4-PoE Port 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 +46 V_{DC} ~ +55 V_{DC}

■ Supports operating temperatures from -40 °C ~ +75 °C
■ DIN-Rail
■ IEEE 802.3af compliant PoE ports
  4-PoE Port 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	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 BaseTX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection
LED Indicators	Power, 10/100M, Link/Act
Ethernet Isolation	1500 V_{rms} 1 minute
Frame Ground for EMS Protection	Yes
Cable	2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm
Power	
Input Voltage Range	+46 ~ +55 V_{DC} for PoE output
Power Consumption	1.3 A @ 48 V_{DC}, +/-5% arrowed with PoE
Protection	Power reverse polarity protection
Frame Ground for EMS Protection	Yes
Connection	3-Pin Removable Terminal Block
PoE Technology	
PoE Compliance	100% IEEE 802.3af compliant
PoE Classification	PSE (Power Sourcing Equipment)
PoE Voltage	+46 ~ +48 VDC 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
Dimensions	33 mm x 107 mm x 99 mm (W x L x H)
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-205PSE

● LED Functions

LED Indicator Functions

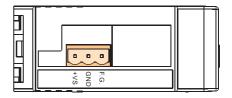| LED	Color	Description
Power	Red On	Power is On
	Red Off	Power is Off
Port 1 ~ Port 4	Orange On	Power Device is detected
	Green On	Link/Act
Port 5	Yellow On	Link to 100 Mbps
	Green On	Link/Act

● Pin Function for Terminal Block

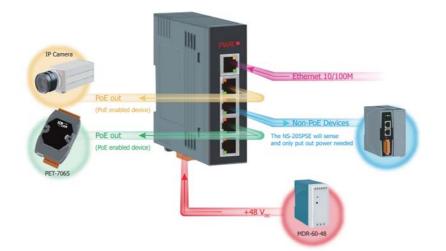External power supply is connected using the removable terminal block:

+Vs : Power input ($+46$ V_{DC} ~ $+55$ V_{DC}) 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.
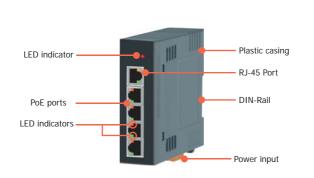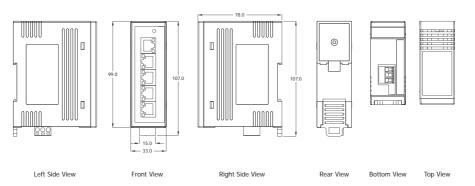

● Applications

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● Appearance

LED indicator

PoE ports

LED indicators

Plastic casing

RJ-45 Port

DIN-Rail

Power input

● Dimensions (Unit: mm)

99.0	107.0	78.0	107.0		
	15.0				
	33.0				
Left Side View	Front View	Right Side View	Rear View	Bottom View	Top View

● Ordering Information

NS-205PSE CR	Unmanaged Ethernet Switch with 4-PoE Port and 1 RJ-45 Uplink (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
DR-120-48	48V/2.5A, 60 W Power Supply with DIN-Rail Mounting