

NS-205PFx series/ NSM-205PFx series

4-Port 10/100 Mbps PoE (PSE) with 1 fiber port Switch

Highlight Information ▶▶▶▶

















NS-205PFx series NSM-205PFx series





Introduction

The NS-205PFx/NSM-205PFx is a 4-port unmanaged PoE (PSE) with 1 fiber port switch; it supports 4 PoE ports which are classified as power source equipments (PSE). The NS-205PFx/NSM-205PFx makes centralized power supply come true and provides up to 15.4 watts of power per PSE port. Using fiber optics, you can prevent noise from interfering with your system and supports high-speed (100 Mbps) and high-distance (up to 60 km) transmissions.

Features

- Provides 1 x 100-FX fiber port plus 4 x PoE ports
- 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, +46 ~ +55 V_{DC}
- Supports operating temperatures from -30 ~ +75°C
- DIN-Rail

Specifications

	110 00000			
Models	NS-205PFx series	NSM-205PFx series		
Technology				
Standards	IEEE 802.3, 802.3u, 802.3x ,802.3af	· ,		
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 press	sure flow control		
Ethernet Interface				
RJ-45 Ports	10/100 Base-T(X) auto negotiation s MDI/MDI-X connection	peed, F/H duplex mode, and auto		
LED Indicators	Power, Link/Act , 10/100M, Power De	evice is detected		
Ethernet Isolation	1500 V _{rms} 1 minute			
+/-6 kV EMS Protection	kV EMS Protection Yes			
Fiber Interface (100 Base-FX; SC/ST	type)			
Multi-Mode (NS-205PFT/FC)	Multi mode fiber cables:50/125, 62.5/125 or 100/140 μm Distance :2 km, (62.5/125 μm recommended) for full duplex Wavelength : 1300 or 1310nm Min. TX Output: -20 dBm Max. TX Output: -14 dBm Max. RX Sensitivity: -32 dBm Max. RX Overload: -8 dBm Budget: 12 dBm			
Single-Mode (NS-205PFCS)	Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125µm Distance: 30 Km, (9/125 µm recommended) for full duplex Wavelength: 1300 or 1310nm Min. TX Output: - 15 dBm Max. TX Output: -8 dBm Max. RX Sensitivity: -34 dBm Max. RX Overload: -5 dBm Budget: 19 dBm			
Single-Mode (NS-205PFCS-60)	Single-mode fiber cables: 8.3/125, 8 Distance: 60 Km, (9/125 µm recomn Wavelength: 1300 or 1310nm Min. TX Output: - 5 dBm Max. TX Output: 0 dBm Max. RX Sensitivity: -35 dBm Max. RX Overload: -5 dBm Budget: 30 dBm			
Power Input	ower Input			
Input Voltage Range	+46 ~ +55 VDC for PoE output			
Power consumption	0.08@ 48 VDC without PD loading			
Protection	Power reverse polarity protection			
+/- 4kV EMS Protection	Yes			
Connection				
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 manage		agement		



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	-30 °C ~ +75 °C	
Storage Temperature	-40 °C ~ +85 °C	
Ambient Relative Humidity	10% ~ 90% RH, non-condensing	

LED Functions

LED Indicator Functions					
LED	Color	Description			
Power	Red On	Power is On			
		Power is Off			
Port 1 ~ Port 4	Orange On	Power Device is detected			
	Green On	Link/Act			
Port 5	Green On	Link/Act			

• Pin Function for Terminal Block

External power supply is connected using the removable terminal block:

PWR : Power input (+46 $V_{DC} \sim$ +55 V_{DC}) and should be connected to the power supply (+)

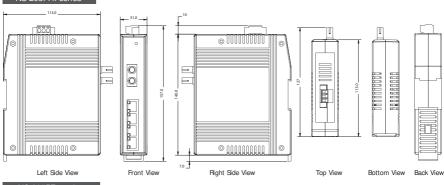
GND: Ground and should be connected to the power supply (-)

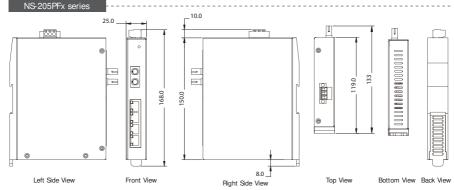
F.G.: F.G. stands for Frame Ground (protective ground). It is optional. If you use this pin, it can reduce EMI radiation; improve EMI performance and ESD protection.

Applications



Dimensions (Unit: mm) NS-205PFx series





Ordering Information

NS-205PFT CR	Multi-mode, ST Connector, 4-Port 10/100 Mbps PoE (PSE) with 1 Fiber port Switch (RoHS)
NS-205PFC CR	Multi-mode, SC Connector, 4-Port 10/100 Mbps PoE (PSE) with 1 Fiber port Switch (RoHS)
NS-205PFCS CR	Single-mode 30 Km, SC Connector, 4-Port 10/100 Mbps PoE (PSE) with 1 Fiber port Switch (RoHS)
NS-205PFCS-60 CR	Single-mode 60 Km, SC Connector, 4-Port 10/100 Mbps PoE (PSE) with 1 Fiber port Switch (RoHS)
NSM-205PFT CR	Multi-mode, ST Connector, 4-Port 10/100 Mbps PoE (PSE) with 1 Fiber port Switch; metal case (RoHS)
NSM-205PFC CR	Multi-mode, SC Connector, 4-Port 10/100 Mbps PoE (PSE) with 1 Fiber port Switch; metal case (PoHS)
NSM-205PFCS CR	Single-mode 30 Km, SC Connector, 4-Port 10/100 Mbps PoE (PSE) with 1 Fiber port Switch; metal case (RoHS)
NSM-205PFCS-60 CR	Single-mode 60 Km, SC Connector, 4-Port 10/100 Mbps PoE (PSE) with 1 Fiber port Switch; metal case (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