

NS-205PF Series/NSM-205PF Series

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

NS-205PF-24V Series/NSM-205PF-24V Series

4-port 10/100 Mbps PoE (PSE) with 1 Fiber Port and +24 Vbc Input Switch



















Features >>>>

- Provides 1 x 100-FX fiber port plus 4 x Ethernet ports
- Each port supports both 10/100 Mbps speed auto negotiation
- Supports operating temperatures from -30 °C ~ +75 °C
- Full duplex IEEE 802.3x and half duplex backpressure flow control
 4 PoE ports with Power Sourcing Equipment (PSE) operation
- Over-temperature, over-current and over/under-voltage detection
- Automatic MDI/MDI-X crossover for plug-and-play
- Store-and-forward architecture
- Auto-detection of PD (powered devices) and automatic power management
- DIN-Rail Mounting

- Introduction

The NS-205PF/NSM-205PF is a 4-port unmanaged PoE (PSE) with 1 fiber port switch; it supports 4 PoE ports which are classified as power source equipment (PSE). The NS-205PF/NSM-205PF 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.

The NS-205PF-24V/NSM-205PF-24V series is designed with +24 V_{DC} to +48 V_{DC} boost for PoE application where +48 V_{DC} power supply is not available.

Comparison Table of 4-port 10/100 Mbps PoE (PSE) with 1 Fiber Port Switch -

		The same	*46 × +55	+46 ~ +55		
Mode Name	NS-205PF-24V	NSM-205PF-24V	NS-205PF	NSM-205PF		
PoE	802.3af					
Input Voltage Range	+18 Vpc ~ +32 Vpc		+46 Vpc ~ +55 Vpc			
Operating Temperature	-30 °C ~ +75 °C					
Casing	Plastic	Metal (IP30)	Plastic	Metal (IP30)		
Installation	DIN-Rail Mounting					
Dimensions (W x L x H)	31 mm x 157 mm x 113 mm	25 mm x 168 mm x 133 mm	31 mm x 157 mm x 113 mm	25 mm x 168 mm x 133 mm		

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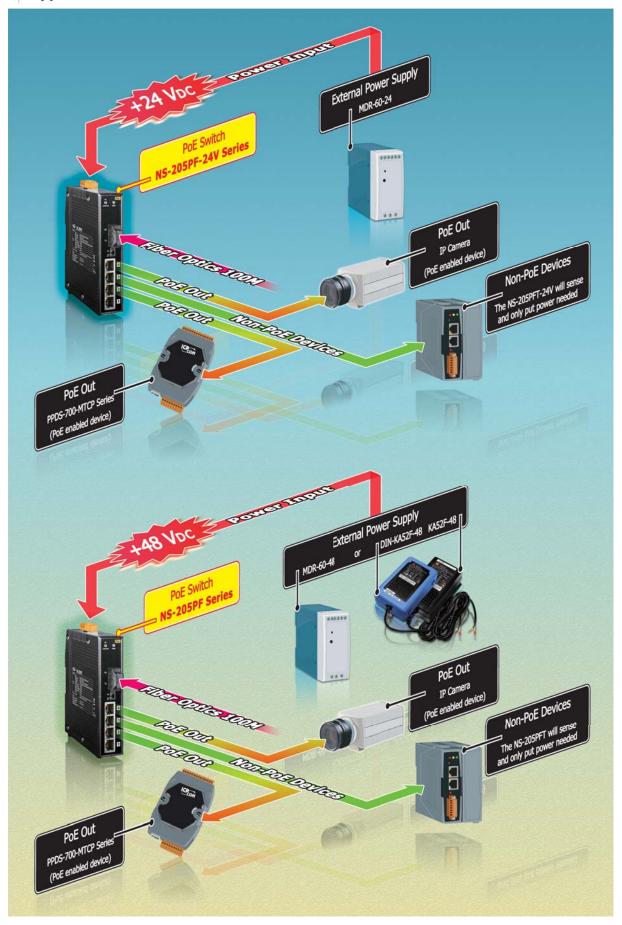
Specifications

Made		NC 20ERE	NCM 205DE C	NG 205DE 2010	NGM 20EDE 2 W 2		
Models		NS-205PF Series	NSM-205PF Series	NS-205PF-24V Series	NSM-205PF-24V Series		
Technology			2 222 2 6 /2 = =:1				
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					
Ethernet Inte	rface						
RJ-45 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 V _{rms} 1 minute					
+/-4 kV ESD Protection		Yes					
Fiber Interfac	e (100 Base-FX; SC/ST	type)					
	NS-205PFT	Multi mode fiber cables:	50/125, 62.5/125 or 100/14	0 μm			
	NS-205PFC	Distance: 2 km, (62.5/125 µm recommended) for full duplex					
	NSM-205PFT	Wavelength: 1300 or 1310 nm					
Multi-Mode	NSM-205PFC NS-205PFT-24V	Min. TX Output: -20 dBm					
	NS-205PFC-24V	Max. TX Output: -14 dBm Max. RX Sensitivity: -32 dBm					
	NSM-205PFT-24V	Min. RX Overload: -8 dBm					
	NSM-205PFC-24V	Budget: 12 dBm					
		Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 μm					
	NC 20EDECC	Distance: 30 km, (9/125 µm recommended) for full duplex					
	NS-205PFCS NSM-205PFCS	Wavelength: 1300 or 1310 nm Min. TX Output: -15 dBm					
Single-Mode	NS-205PFCS-24V	Min. 1X Output: -15 dBm Max. TX Output: -8 dBm					
	NSM-205PFCS-24V	Max. RX Sensitivity: -34 dBm					
		Min. RX Overload: -5 dBm					
		Budget: 19 dBm					
		-	Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 µm				
	NS-205PFCS-60	Distance: 60 km, (9/125 µm recommended) for full duplex Wavelength: 1300 or 1310 nm					
	NSM-205PFCS-60	Min. TX Output: -5 dBm					
Single-Mode	NS-205PFCS-60-24V	Max. TX Output: 0 dBm					
	NSM-205PFCS-60-24V	1 1 1 1					
		Min. RX Overload: -5 dBm					
D		Budget: 30 dBm					
Power Input Input Voltage	Pange	+46 Vpc ~ +55 Vpc for P	oF output	+18 Vpc ~ +32 Vpc			
Input voltage	Range		•	0.24 A @ 24 Vpc without PD) loading:		
Power Consu	mption	0.08 A @ 48 Vpc without	5,	3.2 A @ 24 Vpc with PD full	•		
		1.5 A @ 48 Vpc with PD f	ull loading	4.6 A @ 18 VDC with PD full	loading		
Protection		Power reverse polarity protection					
+/-4 kV ESD	Protection	Yes					
Connector		3-Pin Removable Terminal Block					
PoE Technolo	gy						
PoE Compliance 100% IEEE 802.3af compliant							
PoE Classification		PSE (Power Sourcing Equipment)					
PoE Voltage		+48 Voc depending on power input					
		Up to 15.4 watts per channel					
PoE Voltage		Automatic detection and power management					
PoE Operation PoE Pin assignments		V+ (Pin 1,2), V- (Pin 3,6)					
PoE Pin assignments PoE disconnect mode							
	ct mode	DC disconnect					
Mechanical		Plactic	Motal	Plactic	Motal		
Casing		Plastic (Flammability UL 94V-0)	Metal (IP30 Protection)	Plastic (Flammability UL 94V-0)	Metal (IP30 Protection)		
Dimensions (W x L x H) (Unit: mm)		31 x 157 x 113	25 x 168 x 133	31 x 157 x 113	25 x 168 x 133		
Installation		DIN-Rail Mounting					
Environmenta	al .	2.1 Tail Flouriding					
		-30 °C ** 17E °C					
Operating Ter		-30 °C ~ +75 °C					
Storage Temperature		-40 °C ~ +85 °C					
Ambient Rela	tive Humidity	10% ~ 90% RH, non-cor	ndensing				

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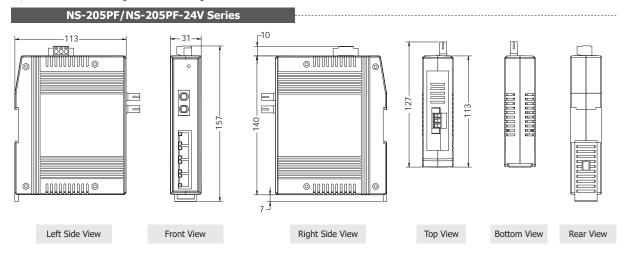


Applications



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Dimensions (Units: mm)



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 (RoHS)
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)
NS-205PFT-24V CR	Multi-mode, ST Connector, 4-port 10/100 Mbps PoE (PSE) with 1 Fiber port and +24 Vpc Input Switch (RoHS)
NS-205PFC-24V CR	Multi-mode, SC Connector, 4-port 10/100 Mbps PoE (PSE) with 1 Fiber port and +24 Vpc Input Switch (RoHS)
NS-205PFCS-24V CR	Single-mode 30 km, SC Connector, 4-port 10/100 Mbps PoE (PSE) with 1 Fiber port and +24 Vpc Input Switch (RoHS)
NS-205PFCS-60-24V CR	Single-mode 60 km, SC Connector, 4-port 10/100 Mbps PoE (PSE) with 1 Fiber port and +24 Vpc Input Switch (RoHS)
NSM-205PFT-24V CR	Multi-mode, ST Connector, 4-port 10/100 Mbps PoE (PSE) with 1 Fiber port and +24 Vpc Input Switch; metal case (RoHS)
NSM-205PFC-24V CR	Multi-mode, SC Connector, 4-port 10/100 Mbps PoE (PSE) with 1 Fiber port and +24 Vpc Input Switch; metal case (RoHS)
NSM-205PFCS-24V CR	Single-mode 30 km, SC Connector, 4-port 10/100 Mbps PoE (PSE) with 1 Fiber port and +24 Vpc Input Switch; metal case (RoHS)
NSM-205PFCS-60-24V CR	Single-mode 60 km, SC Connector, 4-port 10/100 Mbps PoE (PSE) with 1 Fiber port and +24 Vpc Input Switch; metal case (RoHS)

Accessories

DR-120-24	24V/5 A, 120 W Single Output Industrial DIN Rail Power Supply	
MDR-60-24	24V/2.5A, 60 W Power Supply with DIN-Rail Mounting	
MDR-60-48	48 V/1.25 A, 60 W Power Supply with DIN-Rail Mounting	
DIN-KA52F-48	48 V/0.52 A, 25 W Power Supply with DIN-Rail Mounting	
KA52F-48	48 V/0.52 A, 25 W Power Supply	

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