

### **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 Vpc Input Switch Available soon

















#### 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

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Mode Name	NS-205PF-24V	NSM-205PF-24V	NS-205PF	NSM-205PF	
PoE	802.3af				
Input Voltage Range	+18 VDC ~ +32 VDC		+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 127 mm x 157 mm	25 mm x 133 mm x 168 mm	31 mm x 127 mm x 157 mm	25 mm x 133 mm x 168 mm	



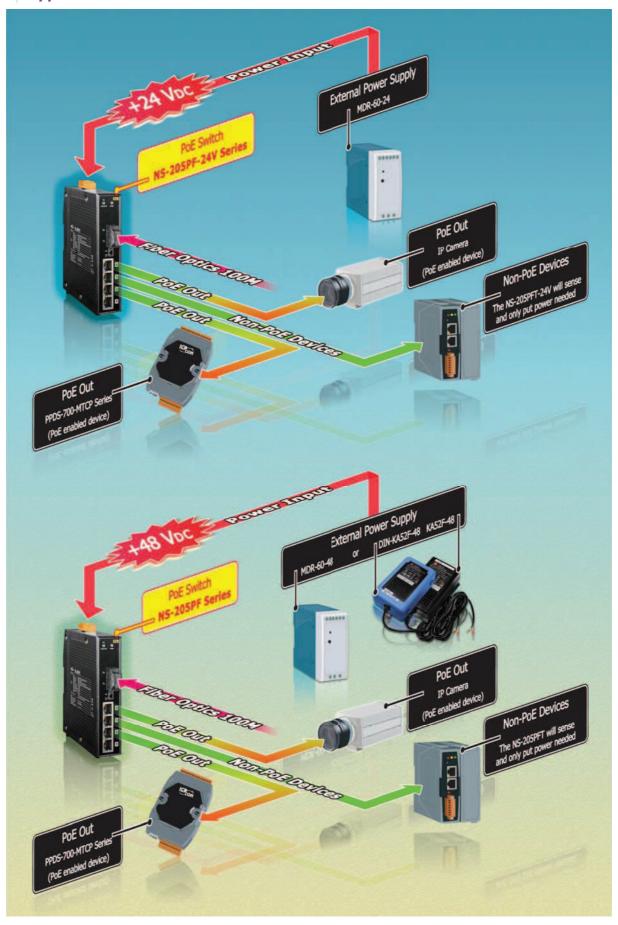
## Specifications

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Models		NS-205PF Series	NSM-205PF Series	NS-205PF-24V Series	NSM-205PF-24V Series		
Technology	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					
<b>Ethernet Inte</b>	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 <sub>rms</sub> 1 minute					
+/-4 kV ESD	Protection	Yes					
Fiber Interfac	ce (100 Base-FX; SC/ST	type)					
	NS-205PFT	Multi mode fiber cables: 5	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 NSM-205PFC	Wavelength: 1300 or 1310 nm					
Multi-Mode	NS-205PFT-24V	Min. TX Output: -20 dBm  Max. TX Output: -14 dBm					
	NS-205PFC-24V	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 0/125 0	r 10/125 um			
		Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 µm  Distance: 30 km, (9/125 µm recommended) for full duplex					
	NS-205PFCS	Wavelength: 1300 or 1310 nm Min. TX Output: -15 dBm					
Single-Mode	NSM-205PFCS						
Single 1-loue	NS-205PFCS-24V	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 Distance: 60 km, (9/125 µm recommended) for full duplex Wavelength: 1300 or 1310 nm Min. TX Output: -5 dBm Max. TX Output: 0 dBm Max. RX Sensitivity: -35 dBm Min. RX Overload: -5 dBm					
	NS-205PFCS-60						
Single-Mode	NSM-205PFCS-60 NS-205PFCS-60-24V						
	NSM-205PFCS-60-24V						
		Budget: 30 dBm					
Power Input				1011 0011			
Input Voltage	Range	+46 Vpc ~ +55 Vpc for Pc	DE output	+18 Vpc ~ +32 Vpc 0.24 A @ 24 Vpc without PD	loading		
Power Consu	mption	0.08 A @ 48 Vpc without	•	3.2 A @ 24 Vbc with PD full	•		
		1.5 A @ 48 Vpc with PD full loading  3.2 A @ 24 Vpc with PD full loading;  4.6 A @ 18 Vpc 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 Classifica	ition	PSE (Power Sourcing Equipment)					
PoE Voltage		+48 Voc depending on power input					
PoE Voltage		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							
		Plastic	Metal	Plastic	Metal		
Casing		(Flammability UL 94V-0)	(IP30 Protection)	(Flammability UL 94V-0)	(IP30 Protection)		
Dimensions (	W x L x H) (Unit: mm)	31 x 127 x 157	25 x 133 x 168	31 x 127 x 157	25 x 133 x 168		
Installation		DIN-Rail Mounting					
Environmenta	al						
Operating Temperature		-30 °C ~ +75 °C					
Storage Temp	perature	-40 °C ~ +85 °C					
Ambient Relative Humidity		10% ~ 90% RH, non-condensing					

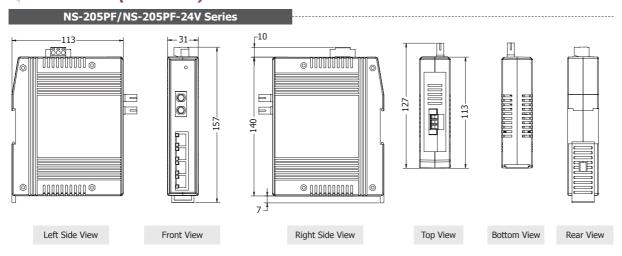
3-30 E-mail: sales@icpdas.com



## Applications



### Dimensions (Units: mm)



#### NSM-205PF/NSM-205PF-24V Series 000 0 133 e $\Rightarrow$ 119 168 150 8.0\_ Left Side View Right Side View Front View Top View Bottom View Rear View

## 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 Voc Input Switch (RoHS)
NS-205PFC-24V CR	Multi-mode, SC Connector, 4-port 10/100 Mbps PoE (PSE) with 1 Fiber port and +24 Voc 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 Voc 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 Vbc 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 Vbc 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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