

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

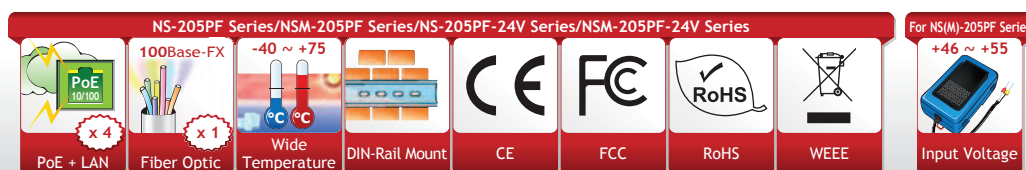
4-port 10/100 Mbps PoE (PSE) with 1 Fiber Port and +24 V_{DC} Input Switch *Available soon*

NS-205PFC/FCS/FCS-60
NS-205PFC-24V/FCS-24V/FCS-60-24V

NS-205PFT
NS-205PFT-24V

NSM-205PFC/FCS/FCS-60
NSM-205PFC-24V/FCS-24V/FCS-60-24V

NSM-205PFT
NSM-205PFT-24V



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.

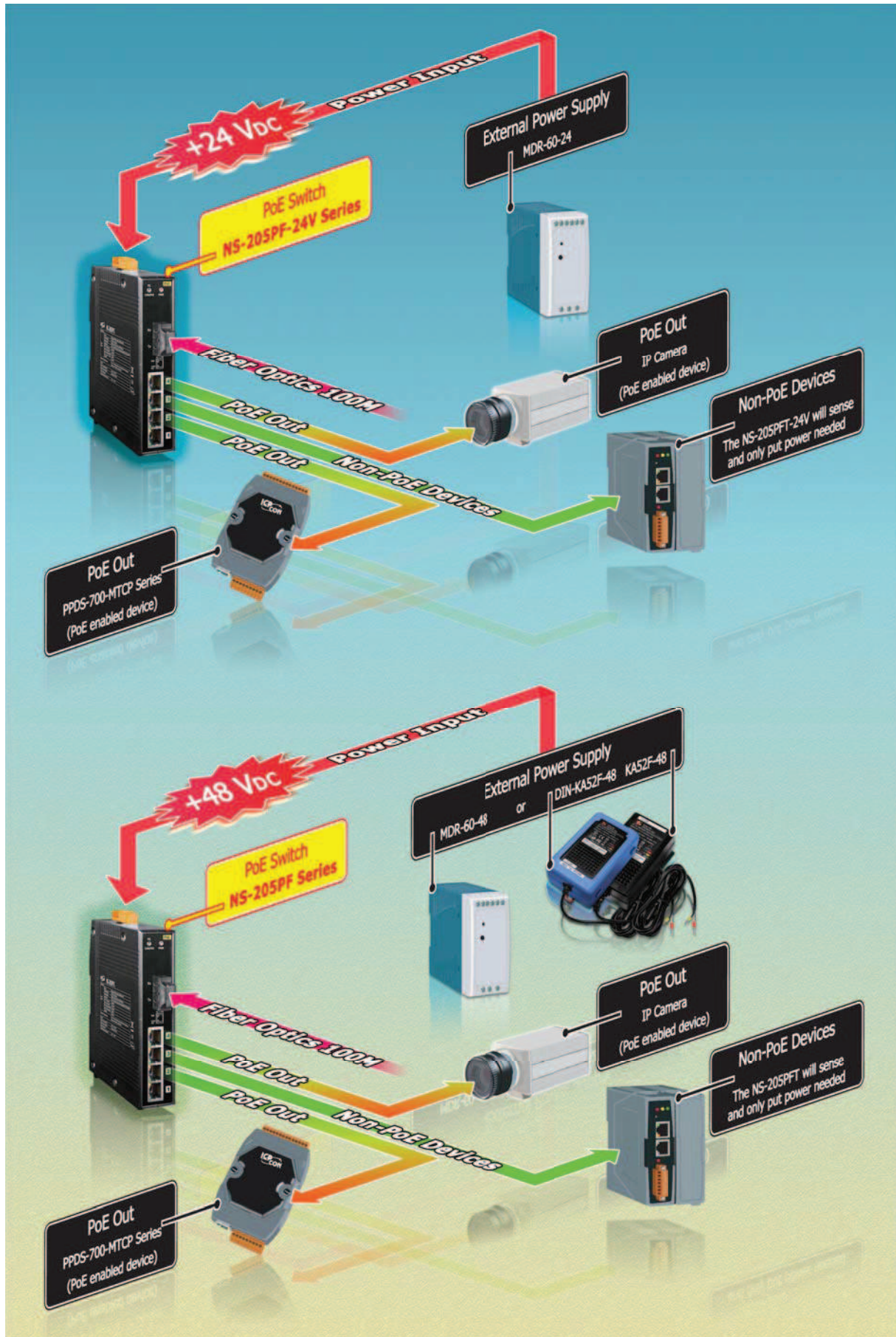
The NS-205PF-24V/NSM-205PF-24V series is designed with +24 V_{DC} to +48 V_{DC} boost for PoE application where +48 V_{DC} power supply is not available.

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

			 	 
Mode Name	NS-205PF-24V	NSM-205PF-24V	NS-205PF	NSM-205PF
PoE	802.3af			
Input Voltage Range	+18 Vdc ~ +32 Vdc		+46 Vdc ~ +55 Vdc	
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

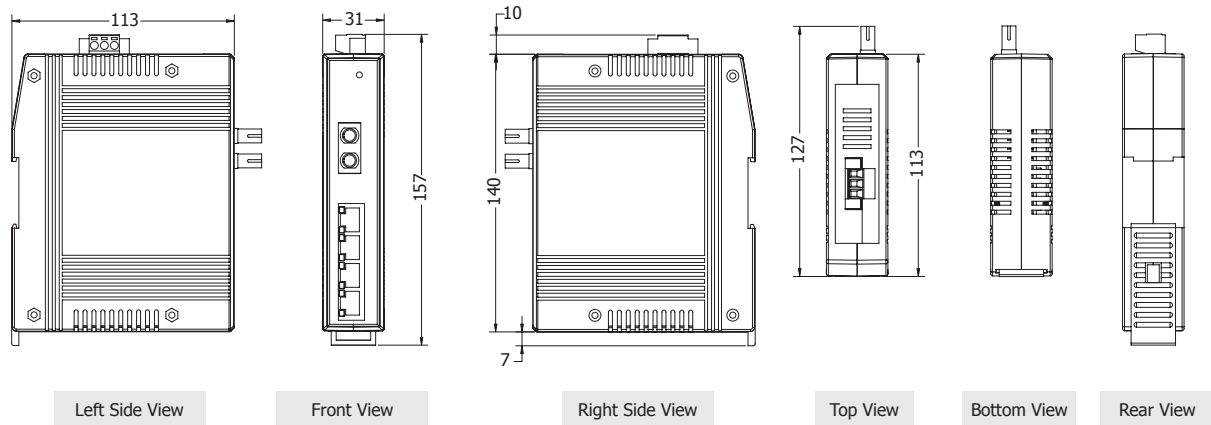
Specifications

Models		NS-205PF Series	NSM-205PF Series	NS-205PF-24V Series	NSM-205PF-24V Series
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			
Ethernet Interface					
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 Interface (100 Base-FX; SC/ST type)					
Multi-Mode	NS-205PFT	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 1310 nm Min. TX Output: -20 dBm Max. TX Output: -14 dBm Max. RX Sensitivity: -32 dBm Min. RX Overload: -8 dBm Budget: 12 dBm			
	NS-205PFC				
	NSM-205PFT				
	NSM-205PFC				
	NS-205PFT-24V				
	NS-205PFC-24V				
	NSM-205PFT-24V				
	NSM-205PFC-24V				
Single-Mode	NS-205PFCS	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 Wavelength: 1300 or 1310 nm Min. TX Output: -15 dBm Max. TX Output: -8 dBm Max. RX Sensitivity: -34 dBm Min. RX Overload: -5 dBm Budget: 19 dBm			
	NSM-205PFCS				
	NS-205PFCS-24V				
	NSM-205PFCS-24V				
Single-Mode	NS-205PFCS-60	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 Budget: 30 dBm			
	NSM-205PFCS-60				
	NS-205PFCS-60-24V				
	NSM-205PFCS-60-24V				
Power Input					
Input Voltage Range		+46 V _{DC} ~ +55 V _{DC} for PoE output		+18 V _{DC} ~ +32 V _{DC}	
Power Consumption		0.08 A @ 48 V _{DC} without PD loading; 1.5 A @ 48 V _{DC} with PD full loading		0.24 A @ 24 V _{DC} without PD loading; 3.2 A @ 24 V _{DC} with PD full loading; 4.6 A @ 18 V _{DC} with PD full loading	
Protection		Power reverse polarity protection			
+/-4 kV ESD Protection		Yes			
Connector		3-Pin Removable Terminal Block			
PoE Technology					
PoE Compliance		100% IEEE 802.3af compliant			
PoE Classification		PSE (Power Sourcing Equipment)			
PoE Voltage		+48 V _{DC} 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					
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 127 x 157	25 x 133 x 168	31 x 127 x 157	25 x 133 x 168
Installation		DIN-Rail Mounting			
Environmental					
Operating Temperature		-30 °C ~ +75 °C			
Storage Temperature		-40 °C ~ +85 °C			
Ambient Relative Humidity		10% ~ 90% RH, non-condensing			

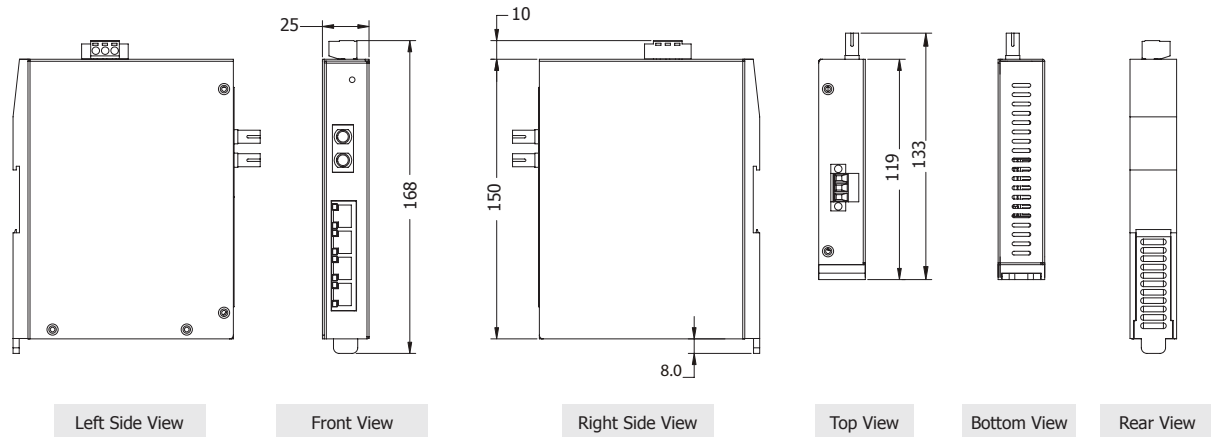


Dimensions (Units: mm)

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



NSM-205PF/NSM-205PF-24V 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 (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 Vdc Input Switch (RoHS)
NS-205PFC-24V CR	Multi-mode, SC Connector, 4-port 10/100 Mbps PoE (PSE) with 1 Fiber port and +24 Vdc 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 Vdc 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 Vdc Input Switch (RoHS)
NSM-205PFT-24V CR	Multi-mode, ST Connector, 4-port 10/100 Mbps PoE (PSE) with 1 Fiber port and +24 Vdc 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 Vdc 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 Vdc 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 Vdc 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