

NS-205F Series / NSM-205F Series

4-port 10/100 Mbps Ethernet with 1 fiber port Switch

NS-205FC/FCS



NS-205FT



NSM-205FC/FCS



NSM-205FT



Highlight Information >>>>



For NSM-205F series



For NSM-205F series



Features >>>>

- Provides 1 x 100-FX fiber port plus 4 x Ethernet ports
- Each port supports both 10/100 Mbps speed auto negotiation
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- Automatic MDI/MDI-X crossover for plug-and-play
- Store-and-forward architecture
- Supports operating temperatures from 0 ~ +70 °C
- DIN-Rail Mounting

Introduction

The NS-205F/NSM-205F is a 4-port unmanaged Ethernet with 1 fiber port switch. Using fiber optics, you can prevent noise from interfering with your system and supports high-speed (100 Mbps) and high-distance (up to 15 km) transmissions.

The NS-205F/NSM-205F provides a wide 10 to 30 V_{DC} power range to fit all the common power standards found in industrial automation, without external power converters. The wide power input lowers installation and maintenance costs.

Comparison Table of 5-port 100 Base-FX Fiber Switch

Model Name	NS-205F	NSM-205F	NS-205AF	NSM-205AF
PoE	—			
Input Voltage Range	+10 ~ 30 V _{DC}		+12 ~ 48 V _{DC}	
Operating Temperature	0 °C ~ +70 °C		-30 °C ~ +75 °C	
Casing	Plastic	Metal (IP20)	Plastic	Metal (IP30)
Installation	DIN-Rail Mounting	DIN-Rail Mounting or Wall Mounting	DIN-Rail Mounting	
Dimensions (W x H x D) (Unit: mm)	64 x 118 x 101	73 x 121 x 105	31 x 157 x 113	25 x 168 x 119

Specifications

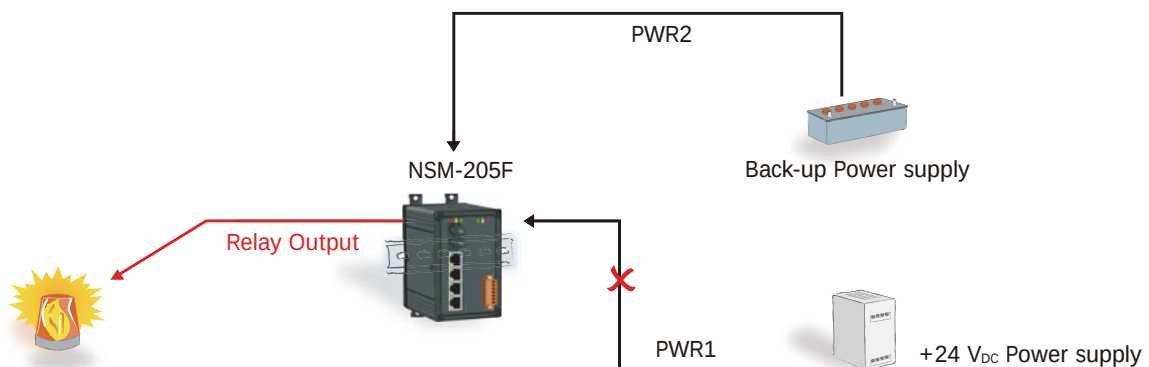
Models	NS-205F Series	NSM-205F Series
Technology		
Standards	IEEE 802.3, 802.3u, 802.3x	
Processing Type	Store & forward; wire speed switching	
MAC Addresses	1024	
Memory Bandwidth	3.2 Gbps	
Frame Buffer Memory	512 Kbit	
Flow Control	IEEE 802.3x flow control, back pressure flow control	

Models		NS-205F Series	NSM-205F Series
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, 10/100M	
Ethernet Isolation		1500 V _{rms} 1 minute	
Fiber Interface (100 Base-FX; SC/ST type)			
Multi-Mode	NS-205FT/NS-205FC NSM-205FT/NSM-205FC	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: -34 dBm	
Single-Mode	NS-205FCS/NSM-205FCS	Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 μm Distance: 15 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: -36 dBm	
Power Input			
Input Voltage Range		+10 ~ +30 V _{DC} (Redundant input)	+10 ~ +30 V _{DC} (Redundant input) One relay output with current carrying capacity of 2A @ 30 VDC
Power Consumption		0.14 A @ 24 V _{DC}	
Protection		Power reverse polarity protection	
+/-4 kV ESD Protection		Yes	
Connector		5-Pin Removable Terminal Block	7-Pin Removable Terminal Block
Mechanical			
Casing		Plastic (Flammability UL 94V-0)	Metal (IP20 Protection)
Dimensions (W x L x H)		64 mm x 98 mm x 110 mm	73 mm x 110 mm x 102 mm
Installation		DIN-Rail Mounting	
Environmental			
Operating Temperature		0 °C ~ +70 °C	
Storage Temperature		-20 °C ~ +85 °C	
Ambient Relative Humidity		10% ~ 90% RH, non-condensing	

Redundant Power Input for NSM-205F series

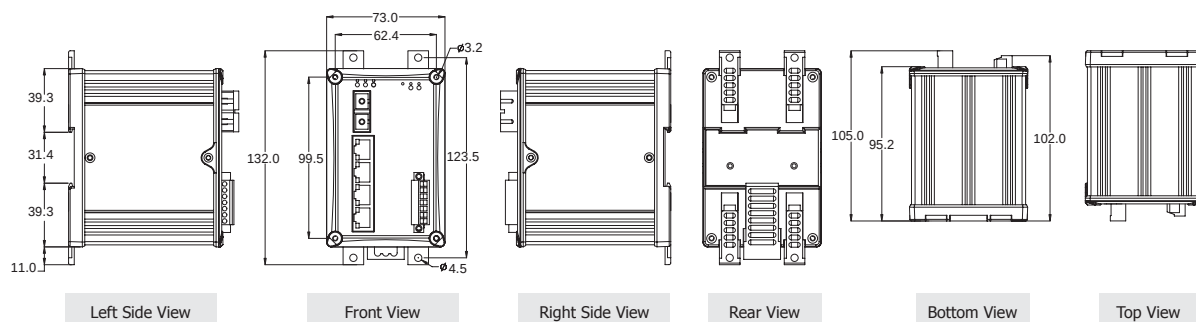
Both power inputs can be connected simultaneously to live DC power sources.

If one power source fails, the other live source acts as a backup, and automatically supplies all of NS-205F/NSM-205F series power needs.



Dimensions (Units: mm)

NSM-205F Series



Left Side View

Front View

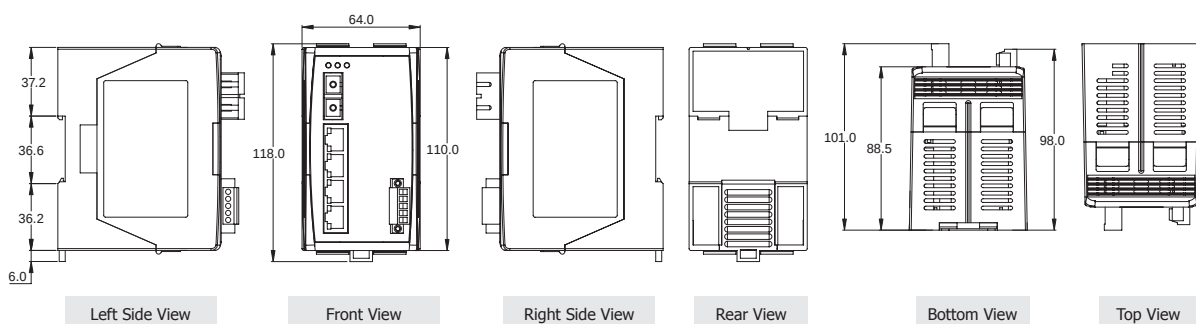
Right Side View

Rear View

Bottom View

Top View

NS-205F Series



Left Side View

Front View

Right Side View

Rear View

Bottom View

Top View

Ordering Information

NS-205FT CR	Multi-mode, ST Connector, 4-port 10/100 Mbps with 1 fiber port Switch (RoHS)
NS-205FC CR	Multi-mode, SC Connector, 4-port 10/100 Mbps with 1 fiber port Switch (RoHS)
NS-205FCS CR	Single-mode 15 km, SC Connector, 4-port 10/100 Mbps with 1 fiber port Switch (RoHS)
NSM-205FT CR	Multi-mode, ST Connector, 4-port 10/100 Mbps with 1 fiber port Switch; metal case (RoHS)
NSM-205FC CR	Multi-mode, SC Connector, 4-port 10/100 Mbps with 1 fiber port Switch; metal case (RoHS)
NSM-205FCS CR	Single-mode 15 km, SC Connector, 4-port 10/100 Mbps with 1 fiber port Switch; metal case (RoHS)

Accessories

MDR-60-24	24 V/2.5 A, 60 W Power Supply with DIN-Rail Mounting
MDR-20-24	24 V/1 A, 24 W Power Supply with DIN-Rail Mounting
DIN-KA52F	24 V/1.04 A, 25 W Power Supply