

NS-205F Series/NSM-205F Series

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

NS-205FC/FCS







NSM-205FC/FCS





Highlight Information ▶▶▶













For NSM-205F series





For NS-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 Supports operating temperatures from 0 ~ +70 °C
- Automatic MDI/MDI-X crossover for plug-and-play
- Store-and-forward architecture

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 Vpc 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

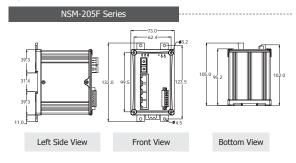
Mode Name	NS-205F	NSM-205F	NS-205AF	NSM-205AF
PoE	_			
Input Voltage Range	+10 ~ 30 Vpc		+12 ~ 48 VDC	
Operating Temperature	0 °C ~ +70 °C		-30 °C ~ +75 °C	
Casing	Plastic	Metal (IP20)	Plastic	Metal (IP30)
Installation	DIN-Rail Mounting	DIN-Rail Mounting or Wall Mounting	DIN-Rail Mounting	
Dimensions (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

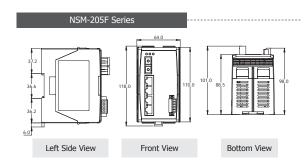
Specifications

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		
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 Vrms 1 minute		

Models		NS-205F Series	NSM-205F Series	
Fiber Interface	e (100 Base-FX; SC/ST type)			
		Multi mode fiber cables: 50/125, 62.5/125 or 100/140 µm Distance: 2 km, (62.5/125 µm recommended) for full duplex		
Multi-Mode	NS-205FT/NS-205FC	Wavelength: 1300 or 1310nm		
	NSM-205FT/NSM-205FC	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		
3		Min. TX Output: -15 dBm		
		Max. TX Output: -8 dBm		
Power Input		Max. RX Sensitivity: -36 dBm		
Power Input			+10 ~ +30 Vpc (Redundant input)	
Input Voltage Range		+10 ~ +30 VDC (Redundant input)	One relay output with current carrying capacity of 2 A @ 30 Vbc	
Power Consur	nption	0.14 A @ 24 VDC		
Protection		Power reverse polarity protection		
+/-4 kV ESD Protection		Yes		
Connector		5-Pin Removable Terminal Block	7-Pin Removable Terminal Block	
Mechanical				
Cosing		Plastic	Metal	
Casing		(Flammability UL 94V-0)	(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	DIN-Rail Mounting or Wall Mounting	
Environmenta				
Operating Temperature		0 °C ~ +70 °C		
Storage Temperature		-20 °C ~ +85 °C		
Ambient Relat	ive Humidity	10% ~ 90% RH, non-condensing		

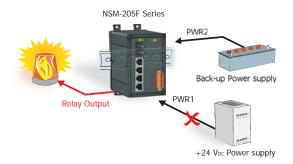
Dimensions (Units: mm)





- 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 NSM-205F series power needs.



- 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 30 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 30 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