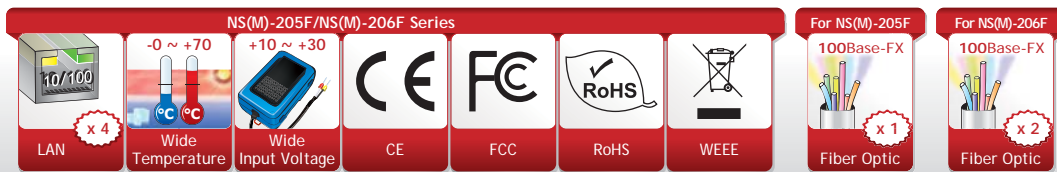


NS-205F Series/NSM-205F Series

4-port 10/100 Mbps Ethernet with 1 Fiber Port Switch

NS-206F Series/NSM-206F Series

4-port 10/100 Mbps Ethernet with 2 Fiber Ports Switch



Features ▶▶▶

- Provides 1 x 100-FX fiber port for NS-205F/NSM-205F series
- Provides 2 x 100-FX fiber ports for NS-206F/NSM-206F series
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- Supports operating temperatures from 0 °C ~ +70 °C
- Automatic MDI/MDI-X crossover for plug-and-play
- Store-and-forward architecture
- Redundant dual +10 V_{dc} ~ +30 V_{dc} power inputs
- DIN-Rail Mounting

Introduction

The NS-206F/NSM-206F is a 4-port unmanaged Ethernet with 2 fiber ports 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/NS-206F/NSM-206F provides a wide +10 V_{dc} ~ +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 Fiber Switch

Mode Name	NS-205F NS-206F	NSM-205F NSM-206F	NS-205AF NS-206AF	NSM-205AF NSM-206AF
PoE	-			
Input Voltage Range	+10 V _{dc} ~ +30 V _{dc}		+12 V _{dc} ~ +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 L x H) (Unit: mm)	64 x 118 x 101	73 x 132 x 105	31 x 157 x 123	25 x 168 x 131

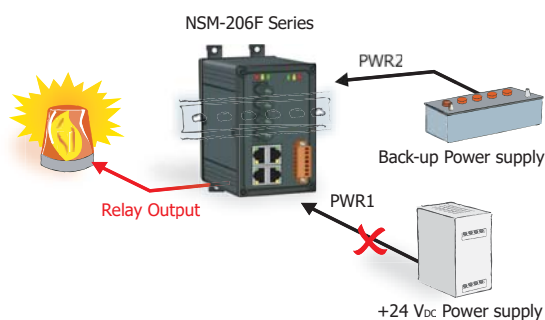
Specifications

Models	NS-205F Series	NS-206F Series	NSM-205F Series	NSM-206F Series
Technology				
Standards	IEEE 802.3, 802.3u, 802.3x			
Processing Type	Store & forward; wire speed switching			
MAC Addresses	1024			
Memory Bandwidth	2.0 Gbps			
Frame Buffer Memory	512 Kbit			
Flow Control	IEEE 802.3x 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 V _{rms} 1 minute			
+/-4 kV ESD Protection	Yes			
Fiber Interface (100 Base-FX; SC/ST type)				
Multi-Mode	NS-205FT/NSM-205FT NS-205FC/NSM-205FC NS-206FT/NSM-206FT NS-206FC/NSM-206FC	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: -14 dBm Min. RX Overload: -34 dBm		
Single-Mode	NS-205FCS/NSM-205FCS NS-206FCS/NSM-206FCS	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 1310 nm Min. TX Output: -15 dBm Max. TX Output: -8 dBm Max. RX Sensitivity: -36 dBm		
Power Input				
Input Voltage Range	+10 V _{DC} ~ +30 V _{DC} (Redundant input)			
Power Consumption	0.14 A @ 24 V _{DC}	0.24 A @ 24 V _{DC}	0.14 A @ 24 V _{DC}	0.24 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 118 mm x 101 mm		73 mm x 132 mm x 105 mm	
Installation	DIN-Rail Mounting		DIN-Rail Mounting or Wall Mounting	
Environmental				
Operating Temperature	0 °C ~ +70 °C			
Storage Temperature	-20 °C ~ +85 °C			
Ambient Relative Humidity	10% ~ 90% RH, non-condensing			

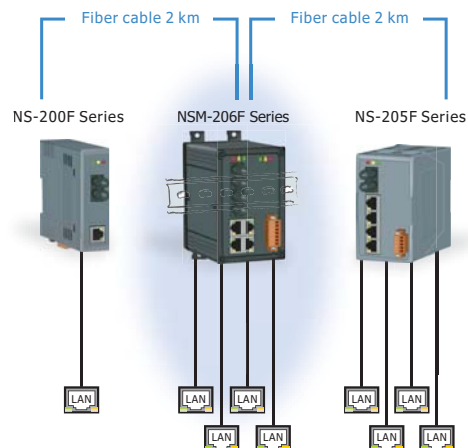
Redundant Power Input

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

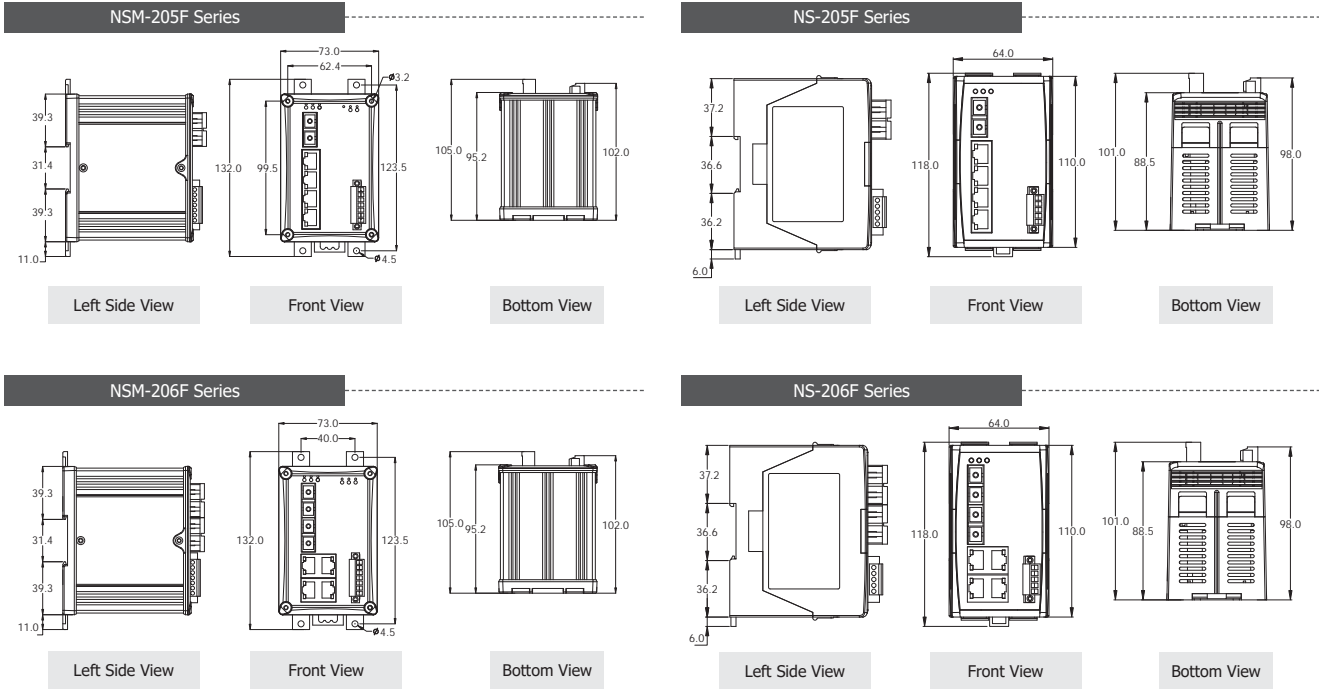
If one power source fails, the other live source will act as a backup, and automatically supplies all of NSM-205F/NSM-206F series power needs.



Fiber Daisy Chain Configuration



Dimensions (Units: mm)



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)
NS-206FT CR	Multi-mode, ST Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch (RoHS)
NS-206FC CR	Multi-mode, SC Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch (RoHS)
NS-206FCS CR	Single-mode 15 km, SC Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch (RoHS)
NSM-206FT CR	Multi-mode, ST Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch; metal case (RoHS)
NSM-206FC CR	Multi-mode, SC Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch; metal case (RoHS)
NSM-206FCS CR	Single-mode 15 km, SC Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch; metal case (RoHS)