

# NS-206F Series/NSM-206F Series

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

NS-206FC/FCS

NS-206FT

NSM-206FC/FCS

NSM-206FT



## Highlight Information ▶▶▶



For NSM-206F series



For NS-206F series



## Features ▶▶▶

- Provides 2 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

## Introduction

The NS-206F/NSM-206F is a 4-port unmanaged Ethernet with dual 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.

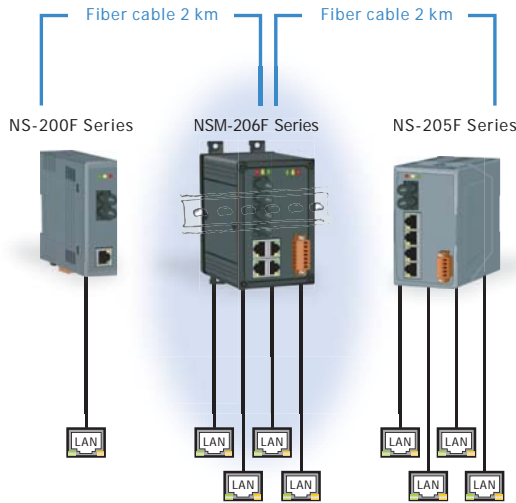
The NS-206F/NSM-206F provides a wide 10 to 30 V<sub>DC</sub> power range to fit all the common power standards found in industrial automation, without external power converters. The wide power input lowers installation and maintenance costs.

## Specifications

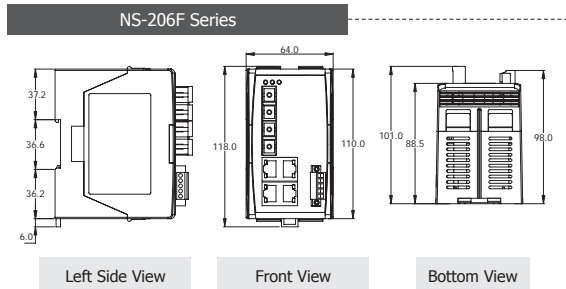
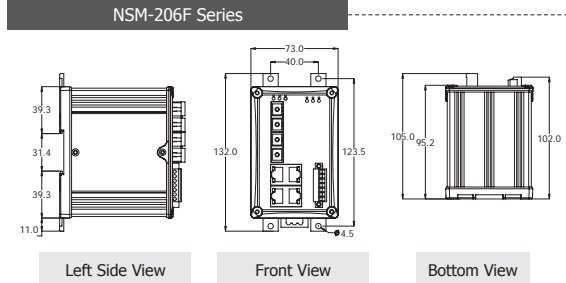
Models	NS-206F Series	NSM-206F Series
Technology		
Standards	IEEE 802.3, 802.3u, 802.3x	
Processing Type	Store & forward; wire speed switching	
MAC Addresses	1024	
Memory Bandwidth	1.6 Gbps	
Frame Buffer Memory	256 Kbit	
Flow Control	IEEE 802.3x flow control, back pressure flow control	
Ethernet Interface		
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 V <sub>rms</sub> 1 minute	
Fiber Interface (100 Base-FX; SC/ST type)		
Multi-Mode	NS-206FT/NS-206FC NSM-206FT/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 1310nm Min. TX Output: -20 dBm Max. TX Output: -14 dBm Max. RX Sensitivity: -34 dBm
Single-Mode	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 1310nm Min. TX Output: -15 dBm Max. TX Output: -8 dBm Max. RX Sensitivity: -36 dBm

Models	NS-206F Series	NSM-206F Series
<b>Power Input</b>		
Input Voltage Range	+10 ~ +30 V <sub>DC</sub> (Redundant input)	+10 ~ +30 V <sub>DC</sub> (Redundant input) One relay output with current carrying capacity of 1 A @ 30 V <sub>DC</sub>
Power Consumption	0.24 A @ 24 V <sub>DC</sub>	
Protection	Power reverse polarity protection	
+/-4 kV ESD Protection	Yes	
Connector	5-Pin Removable Terminal Block	7-Pin Removable Terminal Block
<b>Mechanical</b>		
Casing	Plastic (Flammability UL 94V-0)	Metal (IP20 Protection)
Dimensions (W x L x H)	64 mm x 101 mm x 118 mm	73 mm x 105 mm x 132 mm
Installation	DIN-Rail Mounting	DIN-Rail Mounting or Wall Mounting
<b>Environmental</b>		
Operating Temperature	0 °C ~ +70 °C	
Storage Temperature	-20 °C ~ +85 °C	
Ambient Relative Humidity	10% ~ 90% RH, non-condensing	

### Fiber Daisy Chain Configuration

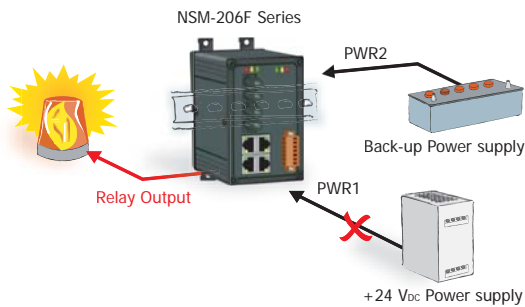


### Dimensions (Units: mm)



### Redundant Power Input for NSM-206F 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-206F series power needs.



### Ordering Information

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

### Accessories

LP1025D-12S	12V/2.1A, 25W Power Supply with DIN-Rail Mounting
LP1025D-24S	24V/1.04A, 24W Power Supply with DIN-Rail Mounting
LP1050D-24SDA	24V/2.1A, 50 W Power Supply with DIN-Rail Mounting