

NS-209F Series/NSM-209F Series

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

NS-209FC/FCS















Highlight Information ▶▶▶



















Features ▶▶▶>

- Provides 1 x 100-FX fiber port plus 8 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-209F/NSM-209F is a 8-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 30 km) transmissions.

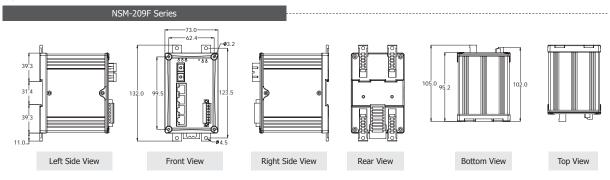
The NS-209F/NSM-209F provides a wide 12 to 48 Vpc power range to fit all the common power standards found in industrial automation, without external power converters. The wide power input lowers installation and maintenance costs.

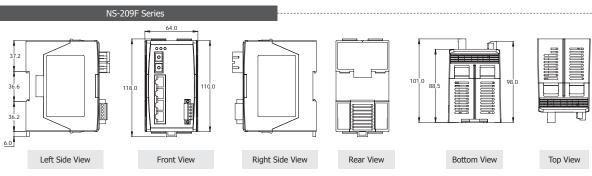
Specifications

Models		NS-209F Series NSM-209F Series	
Technology			
Standards		IEEE 802.3, 802.3u, 802.3x	
Processing Type		Store & forward; wire speed switching	
MAC Addresses		2048	
Memory Bandwidth		2 Gbps	
Frame Buffer Memory		512 Kbit	
Flow Control		IEEE 802.3x flow control, back pressure flow control	
Ethernet Inte	rface		
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 Interfac	e (100 Base-FX; SC/ST type	e)	
		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-209FT/NS-209FC	Wavelength: 1300 or 1310nm	
	NSM-209FT/NSM-209FC	Min. TX Output: -20 dBm	
		Max. TX Output: -14 dBm	
		Max. RX Sensitivity: -32 dBm	
Single-Mode	NS-209FCS/NSM-209FCS	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 1310nm	
		Min. TX Output: -15 dBm	
		Max. TX Output: -8 dBm	
		Max. RX Sensitivity: -34 dBm	

Models	NS-209F Series	NSM-209F Series		
Power Input		·		
Input Voltage Range	+12 ~ +48 Vpc (Redundant input)	+12 \sim +48 Vpc (Redundant input) One relay output with current carrying capacity of 1 A @ 30 Vpc		
Power Consumption	0.26 A @ 24 Vpc	0.26 A @ 24 Vpc		
Protection	Power reverse polarity 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 101 mm x 118 mm	73 mm x 105 mm x 132 mm		
Installation	DIN-Rail Mounting	DIN-Rail Mounting or Wall Mounting		
Environmental				
Operating Temperature	0 °C ~ +70 °C	0 °C ~ +70 °C		
Storage Temperature	-20 °C ~ +85 °C	-20 °C ~ +85 °C		
Ambient Relative Humidity	10% ~ 90% RH, non-condensing	10% ~ 90% RH, non-condensing		

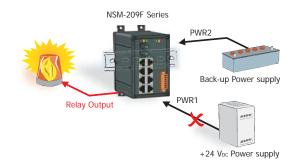
- Dimensions (Units: mm)





- Redundant Power Input for NSM-209F 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-209F series power needs.



- Ordering Information

NS-209FT CR	Multi-mode, ST Connector, 8-port 10/100 Mbps with
113-2091 1 CK	1 fiber port Switch (RoHS)
NS-209FC CR	Multi-mode, SC Connector, 8-port 10/100 Mbps with
NS-209FC CR	1 fiber port Switch (RoHS)
NS-209FCS CR	Single-mode 30 km, SC Connector, 8-port 10/100
N3-209FC3 CR	Mbps with 1 fiber port Switch (RoHS)
NSM-209FT CR	Multi-mode, ST Connector, 8-port 10/100 Mbps with
NSM-209F1 CK	1 fiber port Switch; metal case (RoHS)
NSM-209FC CR	Multi-mode, SC Connector, 8-port 10/100 Mbps with
NSM-209FC CK	1 fiber port Switch; metal case (RoHS)
NSM-209FCS CR	Single-mode 30 km, SC Connector, 8-port 10/100
INSIM-209FCS CR	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