Unmanaged Ethernet Switches

NS-209F Series/NSM-209F Series

Unmanaged 8-port Industrial 10/100 Base-TX with 100 Base-FX Fiber Switch



















Features >>>>

- Each port supports both 10/100 Mbps speed auto negotiation
- Automatic MDI/MDI-X crossover for plug-and-play
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- DIN-Rail Mounting or Wall Mounting for NSM-209F series
- MAC address 2048
- Store-and-forward architecture
- Supports +12 V_{DC} ~ +48 V_{DC} power input
- DIN-Rail Mounting for NS-209F series

Introduction

The NS-209F/NSM-209F series is a Unmanaged 8-port Industrial 10/100 Base-TX with 100 Base-FX Switch that secures data transmission by using fiber optic transmission to provide immunity from EMI/RFI interference. It uses Ethernet for transmitting a signal up to 30 km, and is the perfect solution for applications where transmission must be protected from electrical exposure, surges, lightning or chemical corrosion.

The NS-209F/NSM-209F series operates at full duplex mode. In full duplex mode, range is 30 km with 8.3/125, 8.7/125, 9/125 or 10/125 μm fiber cables.

NSM-209F provides two power inputs that can be connected simultaneously to live DC power sources. If one of the power inputs fails, the other live source will act as a backup to automatically support the NSM-209F's power needs.

Specifications

Models	NS-209F Series	NSM-209F Series		
Technology	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 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			
Fiber Optics Port	100 Base-FX			
Ethernet Isolation	1500 V _{rms} 1 minute			
EMS Protection	Yes			



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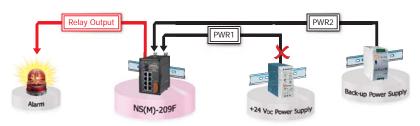
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Models		NS-209F Series	NSM-209F Series			
Fiber Interface	Fiber Interface (100 Base-FX; SC/ST type)					
		Multi mode fiber cables: 50/125, 62.5/125 or 100/140 μm				
		Distance: 2 km, (62.5/125 µm recommended) for full duplex				
Multi-Mode	NS-209FT/FC	Wavelength: 1300 or 1310 nm				
Watti-Wode	NSM-209FT/FC	Min. TX Output: -20 dBm				
		Max. TX Output: -14 dBm				
		Max. RX Sensitivity: -32 dBm				
Fiber Interface	Fiber Interface (100 Base-FX; SC/ST type)					
		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				
Single-Mode	NS-209FCS	Wavelength: 1300 or 1310 nm				
	NSM-209FCS	Min. TX Output: -15 dBm				
		Max. TX Output: -8 dBm Min. RX Sensitivity: -34 dBm				
Power Input		Mill. RX Sensitivity34 dbill				
Power Input		I	+12 Vpc ~ +48 Vpc (Non-isolated)			
Input Voltage R	ange	+12 V _{DC} ~ +48 V _{DC} (Non-isolated)	Redundant Inputs with one relay output (1 A @ 24 Vbc) for alarm			
Power Consumption		0.26 A @ 24 Vpc				
LED Indicator		Yes				
Protection		Power reverse polarity protection				
+/-4 kV ESD Protection		Yes				
Mechanical	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	Environmental					
Operating Temperature		-10 °C ~ +75 °C				
Storage Temperature		-20 °C ~ +85 °C				
Ambient Relativ	e Humidity	10% ~ 90% RH, non-condensing				

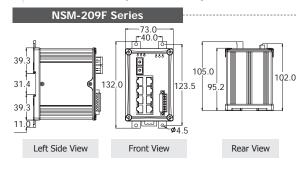
- Redundant Power Input

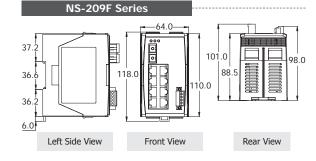
Both power inputs can be connected simultaneously to live DC power sources.

If one power source fails, the other live source will act as a backup, and automatically supplies all of NSM-209F series power needs.



Dimensions (Units: mm)





Ordering Information

NS-209FT CR	Multi-mode, ST Connector, 8-port 10/100 Mbps with 1
143-2091 1 CK	Fiber port Switch (RoHS)
NS-209FC CR	Multi-mode, SC Connector, 8-port 10/100 Mbps with 1
N3-209FC CR	Fiber port Switch (RoHS)
NS-209FCS CR	Single-mode 30 km, SC Connector, 8-port 10/100 Mbps
N3-209FC3 CR	with 1 Fiber port Switch (RoHS)
NSM-209FT	Multi-mode, ST Connector, 8-port 10/100 Mbps with 1
NSM-209F1	Fiber port Switch; metal case
NSM-209FC	Multi-mode, SC Connector, 8-port 10/100 Mbps with 1
INSMI-209FC	Fiber port Switch; metal case
NCM 200FCC	Single-mode 30 km, SC Connector, 8-port 10/100 Mbps
NSM-209FCS	with 1 Fiber port Switch; metal case

Accessories

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