

NS-208R

Conformal Coated 8-port Industrial 10/100 Mbps Ethernet Switch

Features

- Conformal Coated for harsh railway standards
- Automatic MDI/MDI-X crossover for plug-and-play
- Store-and-forward architecture
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- Each port supports both 10/100 Mbps speed auto negotiation
- Supports +12 VDC ~ +48 VDC power input

Introduction

NS-208R Ethernet switch is designed for industrial applications, such as rolling stock, vehicle, and railway applications. Conformal coatings encapsulate circuit boards and their electronic components in order to prevent the ingress of moisture, fungus, dust and other environmental contaminants. After the coating is made on the switches, it provides environmental and mechanical protection to significantly extend the life of the components and circuitry to meet the challenges in severe industrial environments.

NS-208R provides a wide +12 VDC ~ +48 VDC 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

LED Indicators	
Status	Power, Link/Act, 10/100M
Ethernet	
Ports	8 x RJ-45, 10/100 Base-TX
Standards	IEEE 802.3, 802.3u, 802.3x
Processing Type	Store & forward
MAC Table	2048
Frame Buffer Memory	1 Mbit
Flow Control	IEEE 802.3x flow control, back pressure flow control
Isolation	1500 Vrms 1 minute
Power	
Reverse Polarity Protection	Yes
Input Range	+12 ~ +48 VDC (Non-isolated)
Consumption	0.15 A @ 24 VDC
Mechanical	
Casing	Plastic
Dimensions (mm)	64 x 118 x 98 (W x L x H)
Installation	DIN-Rail Mounting
Environment	
Operating Temperature	-40 °C ~ +75 °C
Storage Temperature	-40 °C ~ +85 °C
Humidity	10% ~ 90% RH, non-condensing

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Comparison Table of 8-port 10/100 Mbps Ethernet Switch

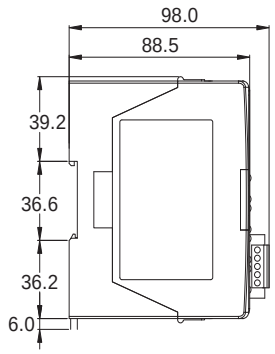


Mode Name	NS-208	NSM-108	NS-208A	NSM-208A	NS-208R
Input Voltage Range	+12 VDC ~ +48 VDC				
Casing	Plastic	Metal	Plastic	Metal	Plastic
Installation	DIN-Rail Mounting	DIN-Rail Mounting or Wall Mounting	DIN-Rail Mounting		
Dimensions (W x L x H) (Unit: mm)	64 x 118 x 98	73 x 132 x 103	31 x 157 x 113	25 x 168 x 119	64 x 118 x 98
Remarks	–		Cost-effective		EN50155-certified

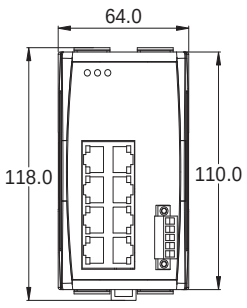
Applications



Dimensions (Units: mm)



Left Side View



Front View

Ordering Information

NS-208R CR	Conformal Coated 8-port Industrial 10/100 Mbps Ethernet Switch (RoHS)

Accessories

MDR-60-48 CR	Power Supply, 85~264 VAC to 48 VDC/1.25 A, 60 W, DIN-rail mounting (RoHS)
DIN-KA52F-48 CR	Power Supply, 100~250 VAC to 48 VDC/0.52 A, 25 W, DIN-rail mounting (RoHS)
KA52F-48 CR	48 V/0.52 A, 25 W Power Supply

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