



# **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  $\sim$  +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	$+12 \sim +48$ 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			

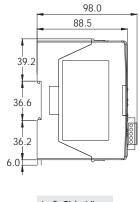
# Comparison Table of 8-port 10/100 Mbps Ethernet Switch

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

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,		
MDK-00-40 CK	60 W, DIN-rail mounting (RoHS)		
DIN-KA52F-48 Power Supply, 100~250 VAC to 48 VDC/0.52 A			
CR	25 W, DIN-rail mounting (RoHS)		
KA52F-48 CR	48 V/0.52 A, 25 W Power Supply		