



EN50155 8-port Industrial 10/100 Mbps Ethernet Switch



















Features >>>>

- EN50155-certified 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 V_{DC} ~ +48 V_{DC} power input
- Supports operating temperatures from -40 °C ~ +75 °C
- DIN-Rail Mounting

! Introduction

NS-208R Ethernet switch is designed for industrial applications, such as rolling stock, vehicle, and railway applications. The NS-208R is an unmanaged Ethernet switch with $8 \times 10/100$ Base-T(X) ports which is compliant with EN50155 request.

NS-208R provides a wide $+12~V_{DC}\sim+48~V_{DC}$ 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.

The flow control mechanism is also negotiated. There is link/data rate LEDs for each port to aid troubleshooting. Port connectors are shielded RJ-45.

- 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	+10 Vpc ~ +30 Vpc		+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 98 x 118	73 x 102 x 132	31 x 113 x 157	25 x 119 x 168	64 x 98 x 118
Remarks	_		Cost-effective		EN50155-certified

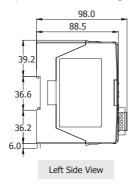
Specifications

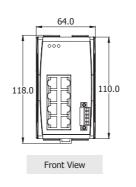
Technology				
Standards	IEEE 802.3, 802.3u, 802.3x			
Processing Type	Store & forward; wire speed switching			
MAC Addresses	2048			
Memory Bandwidth	3.2 Gbps			
Frame Buffer Memory	512 Kbit			
Flow Control	IEEE 802.3x flow control, back pressure flow control			
Interface				
RJ-45 Ports	10/100 Base-T(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection			
LED Indicators	Power, Link/Act, 10/100M			
Ethernet Isolation	1500 V _{rms} 1 minute			
EMS Protection	Yes			
Power Input				
Input Voltage Range	+12 Vpc ~ +48 Vpc			
Power Consumption	0.15 A @ 24 Vbc			
Protection	Power reverse polarity protection			
EMS Protection	Yes			
Connector	5-Pin Removable Terminal Block			
Mechanical				
Casing	Plastic (Flammability UL 94V-0)			
Dimensions (W x L x H)	64 mm x 98 mm x 118 mm			
Installation	DIN-Rail Mounting			
Environment				
Operating Temperature	-40 °C ~ +75 °C			
Storage Temperature	-40 °C ~ +85 °C			
Ambient Relative Humidity	10% ~ 90% RH, non-condensing			

- Applications



- Dimensions (Units: mm)





Ordering Information

NS-208R CR	Unmanaged EN50155 8-port Industrial 10/100
NS-200K CK	Mbps Ethernet Switch (RoHS)

Accessories

MDR-60-48	48 V/1.25 A, 60 W Power Supply with DIN-Rail
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DIN KAFOF 40	48 V/0.52 A, 25 W Power Supply with DIN-Rail
DIN-KA52F-48	Mounting
KA52F-48	48 V/0.52 A, 25 W Power Supply