

# NS-205/NS-205R

Unmanaged 5-port Industrial 10/100 Mbps Ethernet Switch

#### NS-105A/NS-205A

Unmanaged 5-port Industrial 10/100 Mbps Ethernet Switch





#### Features >>>>

- Automatic MDI/MDI-X crossover for plug-and-play
- 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 -40 °C ~ +75 °C
- Store-and-forward architecture
- Supports +12 VDC ~ +56 VDC for NS-205A
- Slim packaging fits on your DIN-Rail Mounting

#### **Introduction**

The NS-205/NS-205A/NS-105A has 5 Ethernet Switching ports that support 10/100 Base-TX, with a 10/100M autonegotiation feature and auto MDI/MDI-X function. It can connect 5 workstations and automatically switches the transmission speed (10 Mbps or 100 Mbps) for corresponding connections. The flow control mechanism is also negotiated. There is activity/link/data rate LEDs for each port to aid trouble-shooting. Port connectors are shielded RJ-45. It contains "soft start" function with overload protection, high-low voltage protection. The width of the NS-205/NS-205A is just 33 mm, so it can be used where space is limited.

The NS-205A/NS-105A provides +12  $V_{DC} \sim +56/53 V_{DC}$  power input to fit various power source.



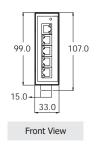
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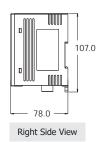
## Specifications

Models		NS-205R	NS-205	NS-205A	NS-105A
Technology					
Standards		IEEE 802.3, 802.3u, 802.3x			
Processing Type		Store & forward; wire speed switching			
MAC Addresses		1024 2048			
Frame Buffer Memory		256 Kbit		768 Kbit	
Flow Control		IEEE 802.3x flow control IEEE 802.3x flow control, back		IEEE 802.3x flow control, back pres	sure 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 <sub>rms</sub> 1 minute			
Frame Ground for EMS Protection		Yes			
Cable	Ethernet	2-pair UTP/STP Cat.3, 4, 5, EIA/TIA-568 100 $\Omega$			
Cable	Fast Ethernet	2-pair UTP/STP Cat. 5, EIA/TIA-568 100 $\Omega$			
Redundant Pow	ver er				
Input Voltage Range		+10 VDC ~ +30 VD	oc (Non-isolated)	+12 VDC ~ +56 VDC (Non-isolated)	+12 V <sub>DC</sub> ~ +53 V <sub>DC</sub> (Non-isolated)
Power Consumption		0.1 A @ 24 Vpc			
Protection		Power reverse polarity protection			
Frame Ground for EMS Protection		Yes			
Connector		3-Pin Removable Terminal Block			5-Pin Removable Terminal Block
EMS Protection					
ESD (IEC 61000-4-2)		±4 kV Contact for Each Terminal & RJ-45 Port			
EFT (IEC 61000-4-4)		±2 kV for Power			
Mechanical					
Casing		Plastic			
Dimensions (W x L x H)		33 mm x 107 mm x 78 mm			76 mm x 118 mm x 38 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			

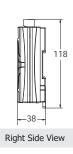
## Dimensions (Units: mm)

#### NS-205/NS-205R/NS-205A





# NS-105A 118 | 10 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101



## Ordering Information

NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch (RoHS)
NS-205R CR	Unmanaged 5-port Industrial Ethernet Switch with conformal coating (RoHS)
NS-205A CR	Unmanaged 5-port Industrial Ethernet Switch with Power Input +12 VDC ~ +56 VDC (RoHS)
NS-105A CR	Unmanaged 5-port Industrial Ethernet Switch with Power Input +12 VDC ~ +53 VDC (RoHS)

### **Accessories**

GPSU06U-6 CR	24 V/0.25 A, 6 W Power Supply (RoHS)
GPSU06E-6 CR	24 V/0.25A, 6 W Power Supply with 2 pole EURO plug (RoHS)
DIN-KA52F CR	24 V/1.04 A, 25 W Power Supply with DIN-Rail Mounting (RoHS)
DIN-KA52F-48 CR	48 V/0.52 A, 25 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-20-24 CR	24 V/1 A, 24 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-60-48 CR	48 V/1.25 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)

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