

# 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



NS-105A/NS-205/NS-205A						NS-205A
LAN x5	-40 ~ +75 °C	DIN-Rail Mount	CE	FCC	RoHS	WEEE
						Wide Input Voltage

## 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 auto-negotiation 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.

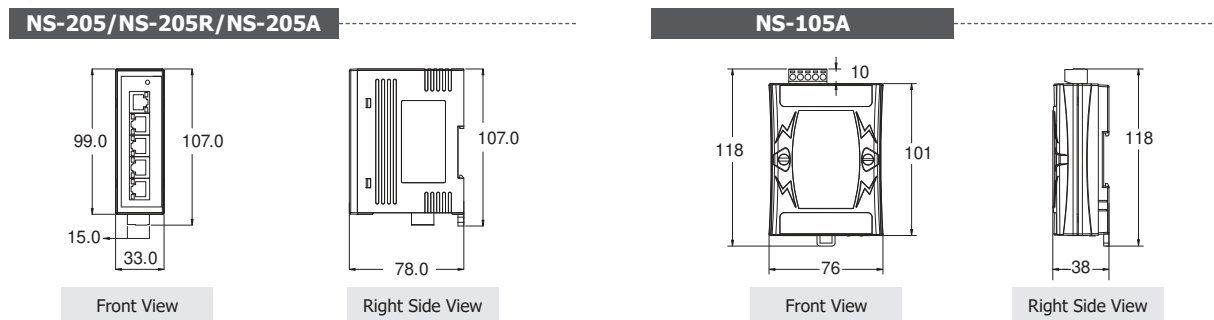
The NS-205A/NS-105A provides +12 Vdc ~ +56/53 Vdc power input to fit various power source.



## Specifications

Models	NS-205R	NS-205	NS-205A	NS-105A
<b>Technology</b>				
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 pressure flow control		
<b>Interface</b>				
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 Ω		
	Fast Ethernet	2-pair UTP/STP Cat. 5, EIA/TIA-568 100 Ω		
<b>Redundant Power</b>				
Input Voltage Range	+10 V <sub>dc</sub> ~ +30 V <sub>dc</sub> (Non-isolated)	+12 V <sub>dc</sub> ~ +56 V <sub>dc</sub> (Non-isolated)	+12 V <sub>dc</sub> ~ +53 V <sub>dc</sub> (Non-isolated)	
Power Consumption	0.1 A @ 24 V <sub>dc</sub>			
Protection	Power reverse polarity protection			
Frame Ground for EMS Protection	Yes			
Connector	3-Pin Removable Terminal Block		5-Pin Removable Terminal Block	
<b>EMS Protection</b>				
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal & RJ-45 Port			
EFT (IEC 61000-4-4)	±2 kV for Power			
<b>Mechanical</b>				
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			
<b>Environment</b>				
Operating Temperature	-40 °C ~ +75 °C			
Storage Temperature	-40 °C ~ +85 °C			
Ambient Relative Humidity	10% ~ 90% RH, non-condensing			

## Dimensions (Units: mm)



## 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 V <sub>dc</sub> ~ +56 V <sub>dc</sub> (RoHS)
NS-105A CR	Unmanaged 5-port Industrial Ethernet Switch with Power Input +12 V <sub>dc</sub> ~ +53 V <sub>dc</sub> (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)