

# NS-205

Unmanaged 5-port Industrial 10/100 Mbps Ethernet Switch

# NS-105A/NS-205A *NEW*

Unmanaged 5-port Industrial 10/100 Mbps Ethernet Switch



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

LAN x5	Wide Temperature -40 ~ +75 °C	DIN-Rail Mount	CE	FCC	RoHS	WEEE	Wide Input Voltage +12 ~ +56 Vdc
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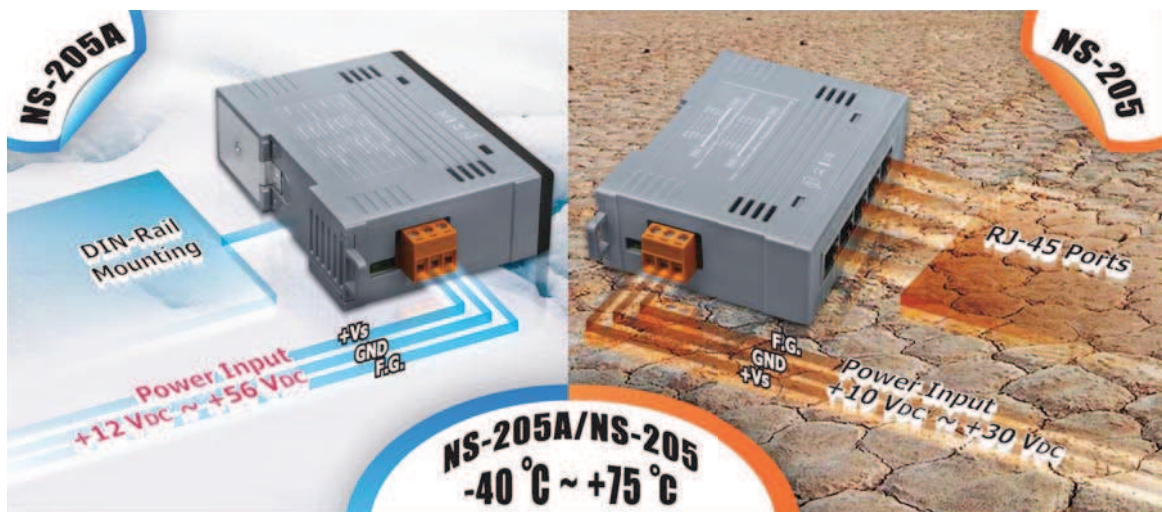
## Features ▶▶▶

- Automatic MDI/MDI-X crossover for plug-and-play
- Store-and-forward architecture
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- Slim packaging fits on your DIN-Rail Mounting
- Each port supports both 10/100 Mbps speed auto negotiation
- Supports +12 V<sub>dc</sub> ~ +56 V<sub>dc</sub> for NS-105A/NS-205A
- Supports operating temperatures from -40 °C ~ +75 °C

## 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.

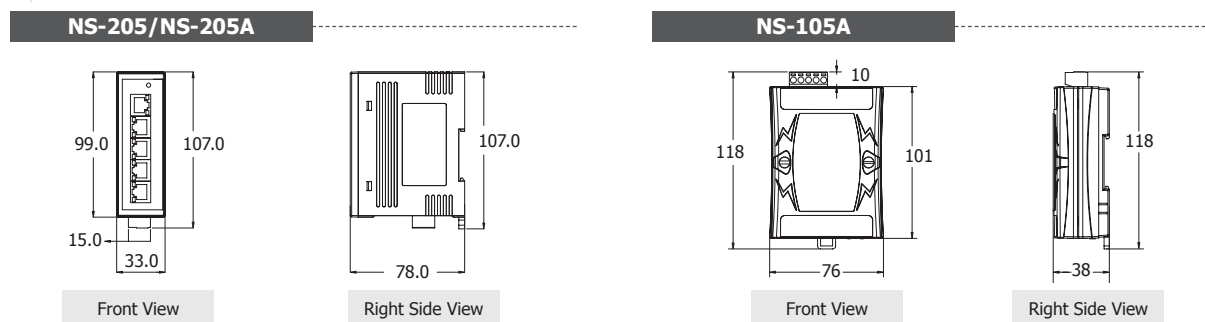
The NS-205A/NS-105A provides +12 V<sub>dc</sub> ~ +56 V<sub>dc</sub> power input to fit various power source.



## Specifications

Models	NS-205	NS-205A	NS-105A
<b>Technology</b>			
<b>Standards</b>	IEEE 802.3, 802.3u, 802.3x		
<b>Processing Type</b>	Store & forward; wire speed switching		
<b>MAC Addresses</b>	1024		
<b>Memory Bandwidth</b>	1.4 Gbps	3.2 Gbps	
<b>Frame Buffer Memory</b>	256 Kbit	512 Kbit	
<b>Flow Control</b>	IEEE 802.3x flow control	IEEE 802.3x flow control, back pressure flow control	
<b>Interface</b>			
<b>RJ-45 Ports</b>	10/100 Base-T(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection		
<b>LED Indicators</b>	Power, Link/Act, 10/100M		
<b>Ethernet Isolation</b>	1500 V <sub>rms</sub> 1 minute		
<b>Frame Ground for EMS Protection</b>	Yes		
<b>Cable</b>	<b>Ethernet</b>	2-pair UTP/STP Cat.3, 4, 5, EIA/TIA-568 100 Ω	
	<b>Fast Ethernet</b>	2-pair UTP/STP Cat. 5, EIA/TIA-568 100 Ω	
<b>Redundant Power</b>			
<b>Input Voltage Range</b>	+10 V <sub>dc</sub> ~ +30 V <sub>dc</sub> (Non-isolated)	+12 V <sub>dc</sub> ~ +56 V <sub>dc</sub> (Non-isolated)	
<b>Power Consumption</b>	0.1 A @ 24 V <sub>dc</sub>		
<b>Protection</b>	Power reverse polarity protection		
<b>Frame Ground for EMS Protection</b>	Yes		
<b>Connector</b>	3-Pin Removable Terminal Block		5-Pin Removable Terminal Block
<b>Mechanical</b>			
<b>Casing</b>	Plastic		
<b>Flammability</b>	UL 94V-0		
<b>Dimensions (W x L x H)</b>	33 mm x 78 mm x 107 mm		76 mm x 38 mm x 118 mm
<b>Installation</b>	DIN-Rail Mounting		
<b>Environment</b>			
<b>Operating Temperature</b>	-40 °C ~ +75 °C		
<b>Storage Temperature</b>	-40 °C ~ +85 °C		
<b>Ambient Relative Humidity</b>	10% ~ 90% RH, non-condensing		

## Dimensions (Units: mm)



## Ordering Information

NS-205 CR	Unmanaged 5-port Industrial Ethernet Switch (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> ~ +56 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)