

# 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							For NS-105A/NS-205A
LAN x5	Wide Temperature -40 ~ +75 °C	DIN-Rail Mount	CE	FCC	RoHS	WEEE	Wide Input Voltage +12 ~ +56 Vdc

## 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.

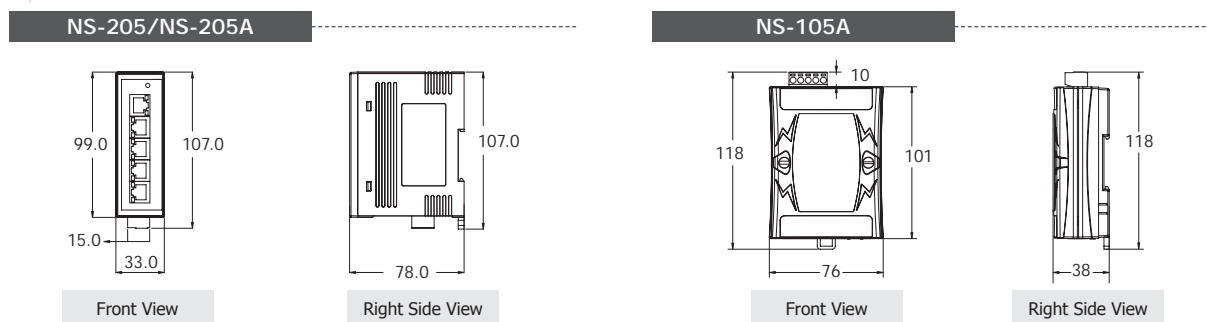
The NS-205A/NS-105A provides +12 V<sub>dc</sub> ~ +56 V<sub>dc</sub> power input to fit various power source.



## Specifications

Models	NS-205	NS-205A	NS-105A
<b>Technology</b>			
Standards	IEEE 802.3, 802.3u, 802.3x		
Processing Type	Store & forward; wire speed switching		
MAC Addresses	1024		
Memory Bandwidth	1.4 Gbps	3.2 Gbps	
Frame Buffer Memory	256 Kbit	512 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)	
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>Mechanical</b>			
Casing	Plastic		
Flammability	UL 94V-0		
Dimensions (W x L x H)	33 mm x 78 mm x 107 mm		76 mm x 38 mm x 118 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-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)