NS-205G

5-Port Industrial 10/100/1000 Mbps Ethernet Switch



Introduction:

The NS-205G is 5-port unmanaged gigabit switches that support 10/100/1000 Base-T, with a 10/100/1000M auto-negotiation feature and auto MDI/MDIX function. It can connect 5 workstations and automatically switches the transmission speed (10 Mbps or 100 Mbps or 1000Mbps) for corresponding connections.

That is an ideal solution for bandwidth-hungry applications (such as high resolution digital image transmission, video/audio file streaming/downloading, and server farm connectivity).

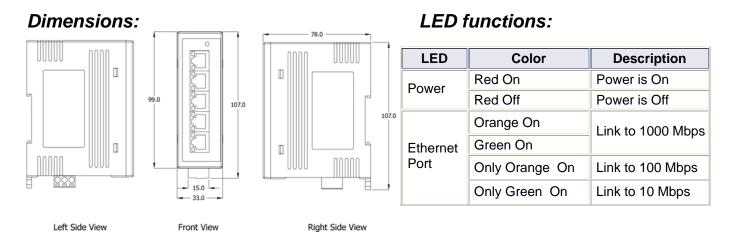
The flow control mechanism is also negotiated. There is link/data rate LEDs for each port to aid trouble-shooting. Port connectors are shielded RJ-45

Features:

- Power saving Technology
- Automatic MDI / MDI-X crossover for plug-and-play
- Each port supports both 10/100 and 1000 Mbps speed auto negotiation
- Store-and-forward architecture
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- 10 Gbps high performance memory bandwidth.
- Supports operating temperatures from −40 ~ +75 °C
- DIN-Rail

Specifications:

Technology	
Standards	IEEE 802.3, 802.3u, 802.3ab and 802.3x
Processing Type	Store & forward, wire speed switching
MAC Addresses	8K
Memory Bandwidth	10 Gbps
Frame buffer memory	1 Mbit
Jumbo Frames	9K for Speed 1000M
Flow Control	IEEE802.3x flow control, back pressure flow control
Interface	
RJ45 ports	10/100/1000 Base-T auto negotiation speed, F/H duplex mode, and auto MDI/MDIX connection
LED Indicators	Power, 10/100/1000M, Link/Act.
Ethernet Isolation	1500 Vrms 1 minute
Frame Ground for EMS Protection	Yes
Power	
Input Voltage Range	+10 ~ +30VDC (Non-isolation)
Power consumption	0.2A@24VDC, +/- 5% arrowed with 1000M Full duplex
Protection	Power reverse polarity protection
Frame Ground for EMS Protection	Yes
Connection	3-Pin Removable Terminal Block
Mechanical	
Case	Plastic
Flammability	UL 94V-0
Dimensions	33mm x 107mm x 78mm (W x H x D)
Installation	DIN rail mount
Environmental	
Operating Temperature	-40 ~ +75°C
Storage Temperature	-40 ~ +85°C
Ambient Relative Humidity	10% to 90% non-condensing



Pin Function For Terminal Block:

External power supply is connected using the removable terminal block:

+Vs : Power input (+10 ~ +30V) and should be connected to the power supply (+)

- GND : Ground and should be connected to the power supply (-)
- **F.G.** : F.G. stands for Frame Ground (protective ground). It is optional. If you use this pin, it can reduce EMI radiation; improve EMI performance and ESD protection.

Checking Power:

Since the NS-205G consumes 4.8W max, ensure that your power supply is able to meet this demand. The Input voltage range is +10~ +30VDC.

Power Savings by Number of Connected Ports and Link Status:

Computers do not require Internet access all the time; neither do switches utilize all ports at all times. When a computer or network equipment is shutdown, switches often remain on and continue to consume considerable amount of power. With Power saving technology, NS-205G can automatically detect link status and reduce power usage of ports that are idle. Computers or any connecting parties set to standby mode (not power off), however, will not provide significant power savings.

Power Savings by Cable Length:

The powers saving switches have the ability to analyze the length of any Ethernet cable connected to them for adjustment of power usage accordingly. Shorter lengths require less power.

