DIGITUS®

16/24-PORT GIGABIT SWITCH

Quick Installation Guide

DN-80112-2 • DN-80113-2

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1. Introduction

DN-80112-2 has 16x10/100/1000Mbps RJ45 port, and DN-80113-2 has 24 10/100/1000 Mbps RJ45 ports, using store and forward technology, combined with dynamic memory allocation, to ensure the effective allocation of bandwidth to each port. This switch is easy to install and does not require configuration. It is easy to manage and maintain which can meet a lot of networking environment, such as business building, community, hotel, office etc. The integrated VLAN and CCTV function can improve the network environment and reduces network maintenance costs.

2. Main feature

- Flow control for full duplex operation and back pressure for half duplex operation
- Supports VLAN and CCTV mode.
- LED lights for monitoring the operating status and for fault analysis.
- Line speed forwarding, smart identification
- Supports jumbo frame up to 15K Bytes.

3. Package Content

- 1x 16/24 Port Switch
- 1x Power Cable
- 1x QIG
- 1x Mounting material

4. Specifications

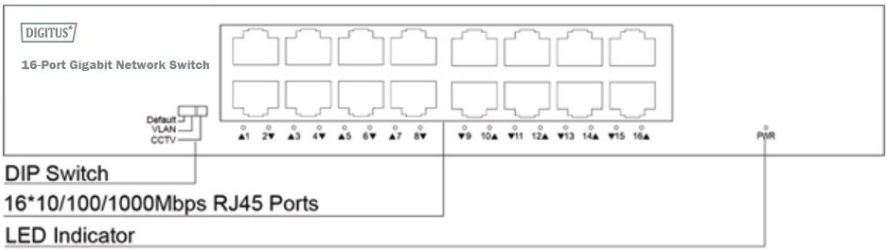
Model	DN-80112-2	DN-80113-2
Standard	IEEE802.3、 IEEE802.3i, IEEE802.3u、IEEE802.3ab、IEEE802.3x	
Network Media	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5, 5e cable (≤100m) 1000BASE-T: UTP category 5, 5e cable (≤100m)	
MAC Address Table	8K, Auto-learning, Auto-aging	
Transfer mode	Store-and-Forward	
Switching Capacity	32Gbps	48Gbps
Forwarding Rate	23.8Mpps	35.7Mpps
Packet buffer	4.1M bit	
Dimensions (LxWxH)	280 x 180 x 44 mm	
Fan	Fanless	
Power Input	AC: 100~240V, 50/60Hz	
Temperature	Operating Temperature: 0°C ~ 40 °C (32 °F ~104°F) Storage Temperature: -40 °C ~ 70 °C (-40 °F ~158°F)	
Humidity	Operating Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 90% non-condensing	
MTBF	>100000 hours	

5. Hardware Description

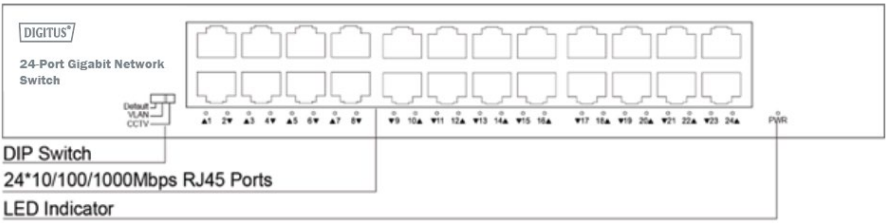
5.1 Front Panel

The Front Panel consists of Ethernet Ports. The LED indicators are also located on the panel.

DN-80112-2



DN-80113-2



DIP Switch

The DIP switch located on the left panel.

- **Default**: the factory default mode, can normal communication between port 1-16/24.
- **VLAN:** 1-14/22 port can be isolated each other but 1-14/22 port can connect to 15-16/23-24 port after open VLAN to stop broadcast storm to increase forwarding rate of frame.
- **CCTV:** Extension mode, 1-16/24 ports forced to slow down to 10Mbps rate, the transmission distance is extended to 250m. It can solve the need for long-distance transmission problems in network monitoring projects, to protect the security of the network.

Note: No need to manually reboot to make the switch effective after changing settings (online toggle)

LED indicator

LED	Color	Function
PWR	Green	**Off**: No Power supply. **Light**: Indicates the switch has power.
LNK/ACT	Green	**Off**: No device is connected to the corresponding port. **Light**: Indicates the link through that port is successfully established at 10/100/1000Mbps. **Blink**: Indicates that the Switch is actively sending or receiving data over that port.

5.2 Rear Panel

The rear panel of the switch indicates an AC inlet power socket, which accepts input power from 100 to 240V AC, 50/60HZ.

Power socket

Connect the female connector of the power cord here, and the male connector to the AC (Alternating Current) power outlet. Please make sure the voltage of the power supply meets the requirement of the input voltage

Grounding column

The switch already comes with lightning protection mechanism. For safety consideration, you should ground the switch through the PE (Protecting Earth) cable by Grounding Column

⚠ **Precautions: The product has provision for a permanently connected protective grounding conductor, this conductor need to install to building earth by a skilled person.**

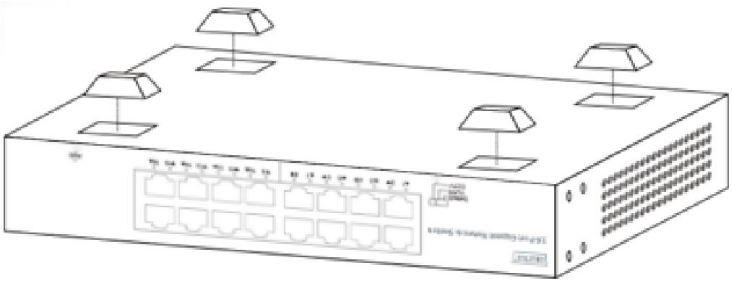
6. Installation the Switch

This part describes how to install your Ethernet Switch and make connections to it. Please follow the following instructions in avoid of incorrect installation causing device damage and security threat.

- Before cleaning the switch, unplug the power plug of the switch first. Do not clean the switch with wet cloth or liquid
- Do not place the switch near water or any damp area. Prevent water or moisture from entering the switch chassis.
- Do not place the switch on an unstable case or desk. The switch might be damaged severely in case of a fall.
- Ensure proper ventilation of the equipment room and keep the ventilation vents of the switch free of obstruction.
- Make sure that the operating voltage is the same one labeled on the switch.
- Do not open the chassis while the switch is operating or when electrical hazards are present to avoid electrical shocks.

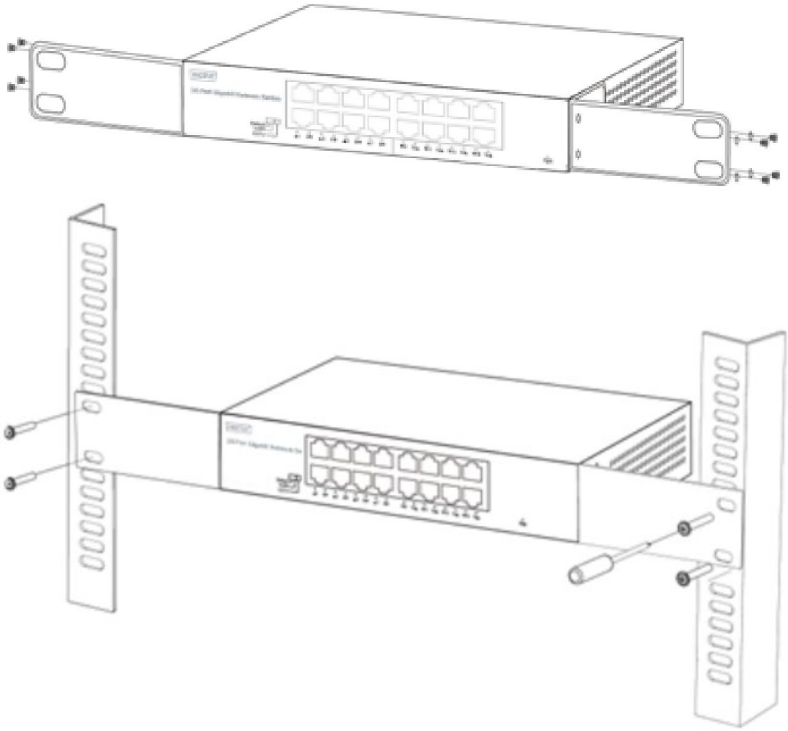
6.1 Desktop Installation

Install the Switch on a desktop, please attach these cushioning rubber feet provided on the bottom at each corner of the Switch in case of the external vibration. Allow adequate space for ventilation between the device and the objects around it as example below.



6.2 Rack-mountable Installation

The switch is rack-mountable and can be installed on an EIA-19-inch equipment rack. To do this, first, please install the mounting brackets on the switch's side panels (one on each side), secure them with the included screws, and then use the screws provided with the equipment rack to mount the switch on the 19-inch rack as example below.



7. Turn on the switch

Please connect the AC power cord into the rear of the switch and to an electrical outlet (preferably one that is grounded). When the switch is power on, the LED indicators flash momentarily for one second, which represents a resetting of the system. The Power LED indicator turns on green.

Note: Please confirm the voltage is correct before power on, otherwise the switch will be damaged.

(The power input is:100V-240Vac, 50/60Hz.)

This is a Class A product. In home environment, this product may cause radio interference. In this case, the user may be required to take appropriate measures.

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