# DIGITUS®

# Gigabit Ethernet PoE Switch 24-port PoE + 2-port SFP, 370W PoE budget



## Quick Installation Guide
DN-95348-1

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# 1. Introduction

The DIGITUS 24-Port Gigabit Rack mount Switch with 24 Power over Ethernet ports and two additional SFP Fiber Port, offers your network significant improvement in terms of performance and efficiency. Thanks to PoE support, you only need a single (network) cable for power and data transfer. This switch makes it much easier to connect devices such as access points, network cameras, and IP telephones, and requires far less cabling than alternatives. It also allows you to extend your network in places where there are no power supply cables or sockets available. The switch does not require any configuration and therefore guarantees quick and seamless integration into the network.

Moreover, can be manually switched to a Normal mode, or Flow Control mode, or VLAN mode to suitable for various occasions flexibly. Based on Gigabit Ethernet Technology, it is essential to helping solve network bottlenecks that frequently develop as more advanced computer users and newer applications continue to demand greater network resources.

# 2. Features

1. Supporting Normal mode, VLAN mode and Flow control mode, flexible to switch
2. Gigabit Ethernet Speed
3. Additional 2 port SFP-Uplink for Fiber Technology
4. Rack mountable in system rack (1U)
5. 24 x 10/100 / 1000 Mbps self-adapting RJ45 ports, support port auto-flip (Auto MDI/MDIX);
6. 2 x 1000 Mbps SFP ports;
7. The UTP port supports the auto-negotiation function and automatically configures the transmission mode and the transmission rate
8. Use of Store-and-Forward architecture

# 3. Package Contents

- Gigabit Ethernet PoE Switch 24-port PoE + 2-port SFP, 370W PoE budget
- Power cord
- QIG

# 4. Specifications

| Hardware Specifications | |
|---|---|
| Standards and Protocols | IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3az, IEEE 802.3at, IEEE 802.3af |
| Interface | 24 x 10/100 / 1000Mbps self-adaptive RJ45 ports, support port auto flip (Auto MDI / MDIX)<br>2 x 1000Mbps optical fiber adaptive ports |
| Network Media | • 10Base-T: UTP category 3, 4, 5 cable (maximum 100m)<br>• 100Base-Tx: UTP category 5, 5e cable (maximum 100m) |

|  |  | • 1000Base-T: UTP category 5e, 6 cable (maximum 100m)<br>• 1000Base-SX: 62.5μm/50μm MMF(2m~550m)<br>• 1000Base-LX: 62.5μm/50μm MMF(2m~550m) Or 10μm SMF(2m~5000m) |
|---|---|---|
| Transfer Method | | Store-and-Forward |
| MAC Address Table | | 8K |
| Switching Capacity | | 52Gbps |
| Packet Forwarding Rate | | 38.688Mpps |
| Packet Buffer | | 4.1Mbit |
| Jumbo Frame | | 9216Bytes |
| Working Mode | Normal mode | Enable Flow Control and all ports can communicate with each other |
| | Flow control mode | Disable Flow Control and all ports can communicate with each other |
| | VLAN mode | Port 1~24 cannot communicate with each other, but can communicate with the uplink port 25F~26F |
| PoE Ports (RJ45) | | 24x PoE ports compliant with 802.3at/af |
| Power Pin Assignment | | 1/2(+),3/6(-) |
| PoE Budget | | 370W |
| LED indicators | Per Device | Power: Green |
| | Per Port | Link/Act, PoE |
| Power Supply | | 100~240VAC,50/60HZ,400W |
| Power Consumption | | Maximum (PoE on):421.2W(220V/50Hz) |

| Support | Support MAC address self-learning |
|---|---|
| Dimensions (W x D x H) | 440x208x44mm |
| Environment | • Operating Temperature: 0°C ~45°C<br>• Storage Temperature: -40°C ~70°C<br>• Operating Humidity:<br>  10%~90% non-condensing<br>• Storage humidity:<br>  5%~90% non-condensing |

# 5. External Component Description

## 5.1 Front Panel

The front panel of the Switch consists of a series of LED indicators, one Mode Switch, 24 x 10/100/1000Mbps RJ-45 ports and 2x SFP ports as shown as below.



**LED indicator:** The LED Indicators will allow you to monitor, diagnose and troubleshoot any potential problem with the Switch, connection or attached devices.

The following chart shows the LED indicators of the Switch along with explanation of each indicator

| LED Indicator | Faceplate Marker | Status | Indication |
|---|---|---|---|
| Power Indicator | PWR | Off | Power Off |
| | | Solid green | Power On |
| Ethernet port indicators (1-24) | Link/Act /Speed | Off | The port is NOT connected |
| | | Solid green | The port is connected at 1000Mbps. |
| | | Solid orange | The port is connected at 100/10Mbps |
| | | Blinking | The port is transmitting or receiving data. |
| SFP port indicators (25F~26F) | Link/Act | Off | The port is NOT connected |
| | | Solid green | The port is connected at 1000Mbps |
| | | Blinking | The port is transmitting or receiving data |
| PoE status indicators (1-24) | PoE | Off | No PD is connected to the corresponding port, or no power is supplied according to the power limits of the port |
| | | Solid green | A Powered Device is connected to the port, which supply power successfully |
| | | Blinking | The PoE power circuit may be in short or the power current may be overloaded |

**Mode Control:**
You can select the switch mode.
- Normal mode (Normal): Enable Flow Control and all ports can communicate with each other.
- Flow control mode: Disable Flow Control and all ports can communicate with each other.
- VLAN mode: 1 to 24 cannot communicate with each other, but can communicate with the uplink port 25F~26F.

**10/100/1000Mbps RJ-45 ports (1~24):**
Designed to connect to the device with a bandwidth of 10Mbps, 100Mbps and 1000Mbps. Each has a corresponding Link/Act/Speed and PoE indicator.

**SFP ports (25F~26F):**
Two SFP transceiver module ports, each port corresponds to one SFP indicator lights.

## 5.2 Real Panel
The rear panel of the Switch shown as below.



**AC Power Connector:**
Power is supplied through an internal power supply. It supports AC 100~240V, 50/60Hz.

**Grounding Terminal:**
Located on the left side of the power supply connector, use wire grounding to lightning protection.

# 6. Installing and Connecting the Switch

This part describes how to install your PoE Ethernet Switch and make connections to it. Please read the following topics and perform the procedures in the order being presented.

## 6.1 Installation

Please follow the following instructions in avoid of incorrect installation causing device damage and security threat.

- Put the Switch on stable place or desktop in case of falling damage.
- Make sure the Switch works in the proper AC input range and matches the voltage labeled on the Switch.
- To keep the Switch free from lightning, do not open the Switch's shell even in power failure.
- Make sure that there is proper heat dissipation from and adequate ventilation around the Switch.
- Make sure the cabinet to enough back up the weight of the Switch and its accessories.

**Desktop Installation**

Sometimes users are not equipped with the 19-inch standard cabinet. When installing 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.

## 6.2 Rack-mountable Installation in 19-inch Cabinet

The Switch can be mounted in an EIA standard-sized, 19-inch rack, which can be placed in a wiring closet with other equipment.
To install the Switch, please follow these steps:

1. Attach the mounting brackets on the Switch's side panels (one on each side) and secure them with the screws provided.
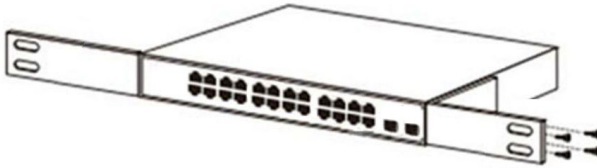


2. Use the screws provided with the equipment rack to mount the Switch on the rack and tighten it.
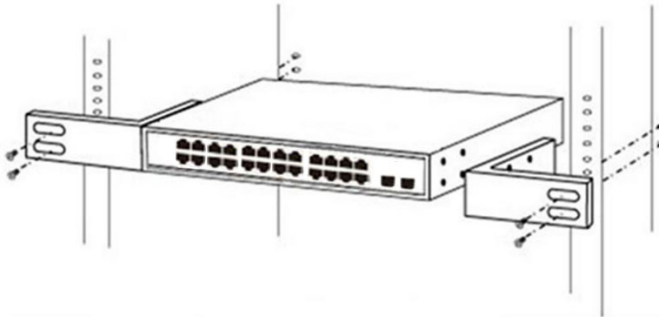


## Power on the Switch:
The Switch is powered on by the AC 100-240V 50/60Hz internal high-performance power supply. Please follow the next tips to connect:

## AC Electrical Outlet:
It is recommended to use single-phase three-wire receptacle with neutral outlet or multifunctional computer professional receptacle. Please make sure to connect the metal ground connector to the grounding source on the outlet.

## AC Power Cord Connection:
Connect the AC power connector in the back panel of the Switch to external receptacle with the included power cord, and check the power indicator is ON or not. When it is ON, it indicates the power connection is OK.

## 6.3 Connect Computer (NIC) to the Switch

Please insert the NIC into the computer, after installing network card driver, please connect one end of the twisted pair to RJ-45 jack of your computer, the other end will be connected to any RJ-45 port of the Switch, the distance between Switch and computer is around 100 meters. Once the connection is OK and the devices are power on normally, the LINK/ACT/Speed status indicator lights corresponding ports of the Switch.

## 6.4 Switch connection to the PD

1-24 ports of the Switch have PoE power supply function, the maximum output power up to 30W each port, it can make PD devices, such as internet phone, network camera, and wireless access point work. You only need to connect the Switch PoE port directly connected to the PD port by network cable.

**CE Mark Warning:** 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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