DIGITUS®

16 Port Gigabit PoE Switch, 19 Inch, Unmanaged, 2 SFP Uplink

Quick Installation Guide

DN-95347-1

1. Introduction

The DIGITUS 16-Port Gigabit Rack mount Switch with sixteen 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

- Comply with IEEE 802.3i, IEEE 802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x, IEEE802.3az standards
- Support IEEE802.3af, IEEE802.3at standards
- Supporting Normal mode, VLAN mode and Extend mode, flexible to switch
- The maximum output power of a single port is 30W, and the total output power of PoE is 247W.
- 16 x 10/100 /1000 Mbps self-adaptive RJ45 ports, support port auto flip (Auto MDI / MDIX)
- Flow control method: Full-duplex adopts IEEE 802.3x standard, half-duplex adopts Backpressure standard.
- Support MAC address self-learning
- The UTP port supports the auto-negotiation function and automatically adjusts the transmission mode and transmission rate
- Use store-and-forward architecture

3. Package Contents

- 1x 16 Port Gigabit PoE Switch, 19 Inch, Unmanaged, 2 SFP Uplink
- 1x Power Cable
- 1x QIG

4. Specifications

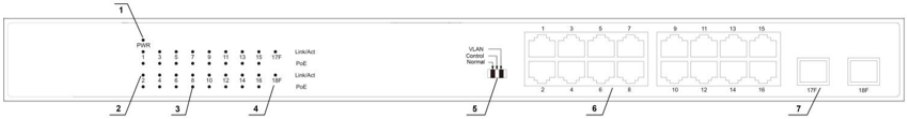
Interfaces	16*10/100/1000Mbps Adaptive Ethernet port 2*100/1000Mbps SFP port
SFP port	Support 1000Base-X
Working Mode	Normal mode （Switch all ports can communicate with each other）
	Flow Control mode (All ports' flow control functions are disable)
	VLAN mode (1 to 16 cannot communicate with each other, but can communicate with 17F-18F)
Power Supply	AC (AC) Input: Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50 -60 hz Rated current: 3.5A
PoE	Support IEEE 802.3AF and IEEE 802.3AT Single port PoE maximum output power 30W, The whole machine support PoE maximum output power 247W. The output voltage of PoE power supply port is 54V.
Power Pin Assignment	1/2(+),3/6(-)
Power Consumption	Maximum (PoE on): 297W
Operating Temperature	0ºC ~ 45ºC
Storage Temperature	-40ºC ~ 70ºC
Operating Humidity	10% ~ 90% RH
Storage humidity	5% ~ 90% RH
Fan	Support
Dimensions (W x D x H)	440*208*44mm
Switching Capacity	36Gbps

5. External Component Description

The front panel consists of 16*10/100/1000Mbps Adaptive Ethernet port, 2*1000Mbps SFP port, 1*Mode switch, a series of LED indicators. The rear panel provides an AC power connector, a Ground Terminal. Its appearance is shown below:

Front Panel

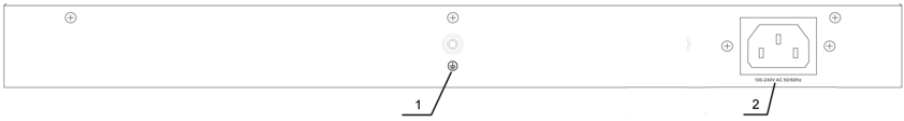
The front panel consists of LED indications and network ports.



1	PWR indicator	2	10/100/1000Base-T Link/Act indicator
3	Mode switch	4	10/100/1000Base-T Adaptive Ethernet port
5	SFP port		

Real Panel

The rear panel view of the Switch consists of an AC power connector.



1	Ground Terminal	2	AC power connector

Power Supply

Rated voltage range: 100-240V~

Frequency: 50 to 60 Hz

Cooling Solution

The switch adopts turbo fan for ventilation to ensure that the equipment can work normally under the specified environment. When placing the case, leave enough space of 10cm on both sides of the case and the rear panel to facilitate air circulation.

PD power supply wiring

The PoE power supply design supports the iEEE802.3af and 802.3at power supply standards, and uses Alternative a mode power supply, that is, 12+, 36- power supply in the standard Ethernet port.

Indicator

Indicator	Faceplate Marker	Status	Indication
PWR Status Light	PWR	Off	Power Off.
		Solid green	Power On.
Ethernet port indicator	Link/ACT (1-16)	Off	The port is NOT connected.
		Solid orange	The port is connected at 10/100Mbps.
		Blinking	The port 10/100M data transceiver.
		Solid green	The port is connected at 1000Mbps.
		Blinking	The port 1000M data transceiver.
SFP port indicator	Link/ACT (17F-18F)	Off	The port is NOT connected.
		Solid orange	The port is connected at 100Mbps.
		Blinking	The port 100M data transceiver.
		Solid green	The port is connected at 1000Mbps.
		Blinking	The port 1000M data transceiver.
PoE status indicators	PoE (1-16)	Off	The port PoE is not powered.
		Solid green	Power supply to port PoE normal.
		Blinking	The port PoE overloaded

6. Installing and Connecting the Switch

This part describes how to install your 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.

6.1.1 Desktop Installation

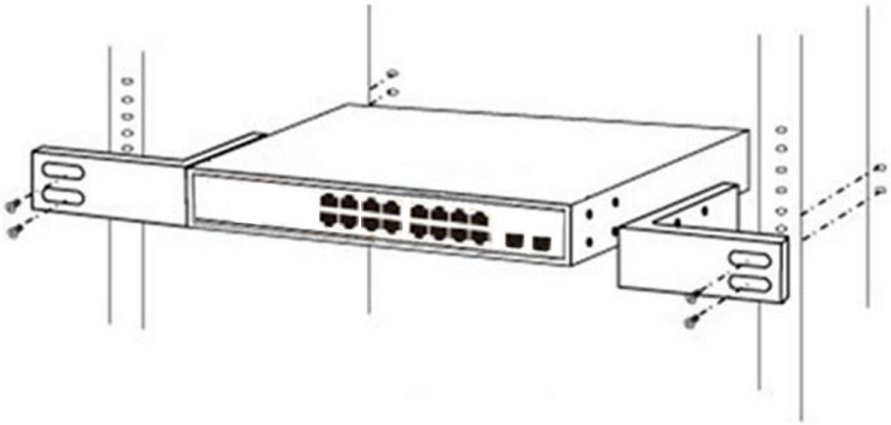
Sometimes users are not equipped with the 19-inch standard cabinet. When installing the Switch on a desktop, please attach these cushioning rubber feet provided on the bottom at each corner of the Switch in case of the external vibration. Allow adequate space for ventilation between the device and the objects around it.

6.1.2 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.



6.1.3 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.

6.2 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 status indicator lights corresponding ports of the Switch.

6.3 Switch connection to the PD

1-16 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, 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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