

16-Port PoE Switch

LanPOE

Model:
16P-GPOE-300W

Type:
Ethernet Switch 16x10/100/1000Base-T



Overview

This 16-Port PoE switch revolutionizes connectivity with 16x10/100/1000Base-T PoE+ ports, 2x10/100/1000Base-T, and 2x100/1000Base-X Ethernet ports. Intelligent PoE power ports detect and energize devices compliant with IEEE 802.3af, IEEE 802.3at, and IEEE 802.3bt standards. Ports 1-2 deliver robust IEEE 802.3af/at/bt support at 60W, while Ports 3-16 ensure steady IEEE 802.3af/at support at 30W per port. Simplifying installation, Power over Ethernet transforms IP-based terminals into high-performance hubs, fostering a safe and reliable network with advanced features.

Features

- Comply with IEEE 802.3, IEEE 802.3u, IEEE802.3af/at/bt standards
- Ethernet port supports 10/100/1000M adaptive and PoE functions
- Flow control mode: full-duplex adopts IEEE 802.3x standard, half-duplex adopts back pressure standard
- Support Port Auto-flip (Auto MDI/MDIX)
- Automatically supplied to adaptive devices
- Panel indicator monitoring status and help failure analysis
- Support PoE Watchdog Function

Typical Application

Metro Optical Broadband Network

- Data network operators such as telecommunications, cable TV, and network system integration, etc.

Broadband private network

- Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries

Multimedia transmission

- Integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications

Real-time monitoring

- Simultaneous transmission of real-time control signals, images and data

Specifications

Provider Mode Ports

Fixed port

- 8*10/100/1000Base-T+2*100/1000Base-X

Power interface

- C100-240V

LED Indicators

- PWR

Cable type & Transmission distance

Twisted-pair

- PoE (1000Mbps): 0-100m (CAT5e, CAT6)
- PoE (10Mbps): 0-250m (CAT5e, CAT6)

Single mode optical fiber

- 20/40/60/80/100KM

Multi-mode optical fiber

- 550m

Network Topology

Chain topology

- Supported

Star topology

- Supported

Bus topology

- Supported

Tree topology

- Supported

Electrical Specifications

Input voltage

- AC100-240V 50/60Hz

Total Power consumption

- < 18W

PoE Budget

- 378W

PoE Function

PoE Protocol

- Port 1-16 support 802.3af, 802.3at
- Port 1-2 support 802.3af, 802.3at, 802.3bt

Pin Assignment

- 1, 2, 3, 6

PoE Port

- 1-16 (Port 1-2 support BT60w)

Specifications

DIP Switch

1. PoE Watchdog

- When the switch port communication fails, the corresponding port POE will automatically detect and restart, restore network communication by itself, and reduce manual intervention and maintenance.

2. Link Extension Mode

- It adopts data extension mode and breaks through the limit of 100 meters.
- It can provide 10Mbps rate and 250 meters long-distance power transmission, and solve the project power supply such as monitoring engineering and wireless coverage.
- The problem of insufficient distance can replace the extender and part of the fiber, expand the scope of equipment and reduce engineering costs.

3. Port Isolation Mode

- The PoE ports of the switch cannot communicate with each other, and can only communicate with Uplink ports.
- It effectively suppresses network storms, prevents virus propagation and network attacks, and improves network performance.

4. Storm Control

- Storm control enables the switch to monitor traffic levels and to drop broadcast, multicast, and unknown unicast packets when a specified traffic level is exceeded (storm control level).
- This prevents packets from proliferating and degrading the LAN

Specifications

Performance

Switching Capacity	• 56Gbps
Throughput	• 29.76Mpps
MAC Address table	• 8K
Buffer	• 4.1 Mbit
Forwarding delay	• < 10us
MDX/MIDX	• Supported
Flow Control	• Supported
Jumbo Frame	• 10Kbytes
Port Mirror	• Supported
Storm Control	• Supported

Certificates

Security Certificate	• CE, FCC, RoHS
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Environment

Operating Temperature	• -10°C~+50°C
Storage Temperature	• -40°C~+ 70°C
Relative humidity	• 10%~90% (non-condensing)
Thermal methods	• Fan
MTBF	• 100,000 hours

Specifications

Emc & Ingress Protection

Surge protection of Power

- IEC 61000-4-5 Level X (4KV/2KV) (8/20us)

Surge protection of Ethernet port
ESD

- IEC 61000-4-5 Level 4 (4KV/2KV) (10/700us)
- IEC 61000-4-2 Level 4 (8K/15K)

Mechanical Dimensions

Product Size (L *W*H)

- 440*280*44mm

Installation Method

- Rackmount

Packing Info

- 23.06kgs/5pcs/540* 495 * 410m m

Have a question?

For troubleshooting LanPoE Smart Networking Products, please reach out to our support team and provide detailed information for assistance.

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