24-Port PoE Switch

LanPOE

Model:
24P-GPOE-300EX

Type:
Ethernet Switch 24x10/100/1000Base-T

NDAA Compliant

Overview

This 24-Port PoE switch is a networking powerhouse, offering 24×10/100/1000Base-T PoE+ ports, 2×10/100/1000Base-T, and 2×100/1000Base-X Ethernet ports for seamless connectivity. Intelligent PoE power ports support IEEE 802.3af/at/bt standards, with Ports 1–2 delivering PoE++ at 60W and Ports 3–24 providing steady IEEE 802.3af/at support at 30W per port. Streamlining installation and mainte- nance, it transforms IP-based terminals into high-performance hubs, establishing a secure and reli- able network with advanced features.

Features

- Comply with IEEE 802.3, IEEE 802.3u, IEEE802.3af/at/bt standards
- Ethernet port supports 10/100/I000M adaptive and PoE functions
- Flow control mode: full-duplex adopts IEEE 802.3x standard, half-duplex adopts back pres- sure 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	• 26* 10/100/1000Base-T + 2 * 100/1000Base-X
Power interface	• AC100-240V
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 1-24 support 802.3af, 802.3at • Port 1-2 support 802.3af, 802.3at, 802.3bt
Pin Assignment	• 1, 2, 3, 6
PoE Port	• 1-24 (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	• 41.66Mpps
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

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

Surge protection of Ethernet port

ESD

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

Installation Method

Packing Info

- 440*280*44mm
- Rackmount
- 24. 64kgs/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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