

# 32 Ports Managed POE Switch

## 【Introduction】

The 28-ports Gigabit Managed POE Switch is a Green Energy-Saving POE Switch independently . It adopts High-Quality and High-Speed Network IC and the most stable POE Chip. The POE port meets the IEEE802.3af or IEEE802.3at standard. This model can provide seamless connection for 10/100/1000M Ethernet, and the POE power port can automatically detect and power the powered devices that comply with the IEEE802.3af or IEEE802.3at standards. The Non-POE devices are forcibly powered and only transmit data.

## 【Main Features】

- Can transfer data for network surveillance cameras;
- 24 x 10/100/1000Mbps auto-sensing POE Ports, 4 x 10/100/1000Mbps Combo Ports, 1 x Console Port;
- Support IEEE802.3/IEEE802.3i/IEEE802.3uIEEE802.3ab/IEEE802.3z, IEEE802.3af/at, store-and-forward;
- Compatible with IEEE802.3at (30W) and IEEE802.3af (15.4w);
- Ethernet port supports 10/100/1000M adaptive and POE functions;
- Panel indicator monitoring the status and help failure analysis;
- Fanless design, Natural Cooling, 1U Rack Mount;
- Support 802.1x port authentication, support AAA authentication, support TACACS+ authentication;
- Support WEB, TELNET, CLI, SSH, SNMP, RMON management;
- Support POE Power Management;
- Support POE Watchdog
- Lightning Protection Surge: General Mode 6KV, Differential Mode 4KV, ESD 15KV.

## 【Application Environment】

- 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】**

I/O Interface	
Power	Input: AC 100-240V, 50/60Hz
Ethernet	24* 10/100/1000Mbps PoE Port 4* 1000M RJ45 Port(Combo) 4*1000M SFP Port (Combo) 1 * RJ45 Console Port
Performance	
Switching Capacity	56Gbps
Throughput	41.66Mpps
Packet Buffer	4Mb
Flash Memory	16MB
DDR SDRAM	128MB
MAC Address	8K
Jumbo Frame	9.6Kbytes
Transfer Mode	Store and forward
MTBF	100000 hour
Standard	

Network protocol	<p>IEEE 802.3: Ethernet MAC Protocol</p> <p>IEEE 802.3i: 10BASE-T Ethernet</p> <p>IEEE 802.3u: 100BASE-TX Fast Ethernet</p> <p>IEEE 802.3ab: 1000BASE-T Gigabit Ethernet</p> <p>IEEE 802.3z: 1000BASE-X Gigabit Ethernet (optical fiber)</p> <p>IEEE 802.3az: Energy Efficient Ethernet</p> <p>IEEE 802.3ad: Standard method for performing link aggregation</p> <p>IEEE 802.3x: Flow control</p> <p>IEEE 802.1ab: LLDP/LLDP-MED (Link Layer Discovery Protocol)</p> <p>IEEE 802.1p: LAN Layer QoS/CoS Protocol Traffic Prioritization(Multicast filtering function)</p> <p>IEEE 802.1q: VLAN Bridge Operation</p> <p>IEEE 802.1x: Client/Server Access Control and Authentication Protocol</p> <p>IEEE 802.1d: STP</p> <p>IEEE 802.1s: MSTP</p> <p>IEEE 802.1w: RSTP</p>
PoE Protocol	<p>IEEE802.3af (15.4W)</p> <p>IEEE802.3at (30W)</p>
Industry Standard	<p>EMI: FCC Part 15 CISPR (EN55032) class A</p> <p>EMS: EN61000-4-2 (ESD)、</p> <p>EN61000-4-4 (EFT)、</p> <p>EN61000-4-5 (Surge)</p>
Network Medium	<p>10Base-T : Cat3、4、5 or above UTP(<math>\leq 100m</math>)</p> <p>100Base-TX : Cat5 or above UTP(<math>\leq 100m</math>)</p> <p>1000Base-TX : Cat5 or above UTP(<math>\leq 100m</math>)</p> <p>Multi-mode Fiber: 50/125、62.5/125、100/140um</p> <p>Single-mode Fiber: 8/125、8.7/125、9/125、10/125um</p>
Protection	

Security Certificate	CE、FCC、RoHS
<b>Environment</b>	
Working Environment	<p>Working Temperature: -10~50°C</p> <p>Storage Temperature: -40~85°C</p> <p>Working Humidity : 10%~90%, non-condensing</p> <p>Storage Temperature: 5%~90%, non-condensing</p> <p>Working Height: Maximum10,000 feet</p> <p>Storage heigh: Maximum 10,000 feet</p>
<b>Indication</b>	
LED Indicators	PWR (power supply) ,SYS (System) ,1-24 PoE&ACT (PoE),1-24 Link&ACT (Link&Act) , 25-28 Link(Link),25-28 Act (Act)
DIP Switch	Reset
<b>Mechanical</b>	
Structure Size	<p>Product Dimension (L*W*H): 440* 280*44mm</p> <p>Package Dimension (L*W*H): 500*365*85mm</p> <p>N.W: 3.9kg</p> <p>G.W: 4.6kg</p>
Packing Info	<p>Carton MEAS: 520*445*385mm</p> <p>Packing Qty: 5 units</p> <p>Packing Weight: 24KG</p>
Power Voltage	<p>Input Voltage : AC 100-240 V</p> <p>Power supply: 52V7.69A</p>
Package List	Switch 1 pcs, Power cord 1 pcs, User manual 1 pc, Warranty card 1 pc, Brackets 1 pair(Selectable)
<b>Ordering Info</b>	

HR-AFGM-2444S-400	32 Port Gigabit Managed PoE Switch
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<b>Layer 2 Software Function</b>	
Port Management	Enable/Disable Port
	Speed、 Duplex、 MTU Setting
	Flow-control
	Port Information Check
Port Mirroring	Supports both side-way port mirroring
Port Speed Limit	Supports port-based input / output bandwidth management
Port Isolation	Support the downlink port isolation, and can communicate with the uplink port
Storm Suppression	Supports unknown unicast, multicast, unknown multicast, broadcast type storm suppression  Storm suppression based on bandwidth regulation and storm filtering
Link Aggregation	Support static manual aggregation  Support LACP dynamic aggregation
VLAN	Access
	Trunk
	Hybrid
	Support port, protocol, MAC-based VLAN partitioning
	Support GVRP dynamic VLAN registration
	Voice VLAN
MAC	Support static addition, deletion
	MAC address learning limit
	Support dynamic aging time setting
Spanning tree	Support STP spanning tree protocol
	Supports RSTP Rapid Spanning Tree Protocol
	Supports MSTP Rapid Spanning Tree Protocol

Multicast	Support static addition, deletion
	IGMP-snooping
	Support MLD-Snooping
	Support v1/2/3 dynamic multicast monitor
DDM	Support SFP/SFP+DDM
<b>Extended Function</b>	
ACL	Based on source MAC, destination MAC, protocol type, source IP, destination IP, L4 port
Qos	Based on 802.1p (COS) classification
	Based on DSCP classification
	Classification based on source IP, destination IP, and port number
	Support SP, WRR scheduling strategy
	Support flow rate limit CAR
LLDP	Support LLDP link discovery protocol
User settings	Add/delete users
Log	User login, operation, status, events
Anti-attack	DOS defense
	Support CPU protection and limits the rate of sending cpu packets
	ARP binding (IP, MAC, PORT binding)
Certification	Support 802.1x port authentication
	Support AAA certification
Network diagnosis	Support ping、telnet、trace
System Management	Device reset, configuration save/restore, upgrade management, time setting, etc.
<b>Management function</b>	
CLI	Support serial port command line management
SSH	Support SSHv1/2 remote management
TELNET	Support telnet remote management
WEB	Support Layer 2 settings, Layer 2 and Layer 3 monitor

SNMP	SNMP V1/V2/V3
	Support trap: ColdStart、WarmStart、LinkDown、LinkUp
RMON	Support RMON v1
POE	Support PoE power supply
Other functions	Support DHCP Snooping、Option82、DHCP Server
	Support dynamic ARP detection
	Support TACACS+ certification
	Support DNS certification
	Support port security settings
	Support MVR protocol
	Support cable detection VCT function
Support UDLD protocol	

【Product Picture】

