

# 28 Port 10G Uplink 24 Port Gigabit L3 Managed Ethernet POE Switch

## 【Description】

28 Port 10G Uplink 24 Port Gigabit L3 Managed Ethernet POE Switch, which provide 24\*10/100/1000 adaptive POE electrical port, 4\*10G SFP+ Port, 1\*Console port, 1\*USB series port. Used the high quality high speed network IC and the most stable POE chips, POE port satisfied IEEE 802.3 af/at standard, this series POE Switch can provide no gap link for 10/100/1000M ethernet, and the PoE power supply port can automatically detect and supply power to the power receiving device that meets the standard, intelligent detection of non-PoE devices does not supply power, only transmits data.

Completed security control strategy and CPU protect policy improve fault tolerance, ensure stable network operation and link load balance; equipment supports automatic DoS attack prevention and SNMP, IEEE 802.1, spanning tree and rapid spanning tree protocol, link aggregation and other functions . Advanced security functions and advanced quality of service (QoS), can be used as core, distribution or access layer switches, with high port density and easy management, it is an ideal choice for various commercial network applications.

## 【Main Features】

- Compatible with IEEE 802.1d、IEEE 802.1w、IEEE 802.1s、IEEE 802.1p、IEEE 802.3、IEEE 802.3u、IEEE 802.3x、IEEE 802.3z、IEEE 802.3ab、IEEE 802.3ae standard;
- L3 Management, support DHCP Server, QoS, ACL control, support SNMP V1/V2/V3, support IGMP Snooping v1/v2;
- Support Spanning Tree Protocol STP/RSTP/MSTP (ERPS), Support loop detection and self-healing, support remote loopback monitoring and control (802.3ah OAM);
- Support multiple VLAN divisions, mac VLAN, protocol VLAN, private VLAN;
- Support IP address + MAC address + VLAN + port binding, support DHCP Snooping, support IP source and DAI protection;
- Support IPV4/IPV6,RIP,OSPF
- Compatible with IEEE802.3at (30W) and IEEE802.3af (15.4w) power supply standards
- Support PoE management, PoE watchdog

## 【Application Environments】

- Metropolitan fiber broadband network: telecommunications, cable television, network system integration, etc., data network operators
- Broadband private network: applicable to private networks in finance, government, petroleum, electric power, public security, education and other industries
- Multimedia transmission: Image, Voice, Data transmission, for distance learning, conference television, video phones and other applications
- Real-time monitoring: real-time control signal, image and data transmission at the same time

## 【Specification】

I/O Interface	
Power	AC100-240V/50-60Hz
Ethernet	24*10/100/1000Mbps POE Port 4*10G SFP Port 1*RJ45 Console Port 1*USB Port
Performance	
Capacity	128Gbps

Packet Forwarding Rate	95.23Mpps
DDR SDRAM	128MB
Flash Memory	16MB
Packet Buffer Memory	12Mbit
MAC Address	16K
Jumbo Frame	12Kbytes
VLANs	4096
MTBF	100000 hours
<b>Standard</b>	
Network Protocol	IEEE 802.3: Ethernet MAC Protocol IEEE 802.3i: 10BASE-T Ethernet IEEE 802.3u: 100BASE-TX Fast Ethernet IEEE 802.3ab: 1000BASE-T Gigabit Ethernet IEEE 802.3z: 1000BASE-X Gigabit Ethernet (optical fiber) IEEE 802.3ae: 10G Ethernet (optical fiber) IEEE 802.3az: Energy-efficient Ethernet IEEE 802.3ad: Standard method of performing link aggregation IEEE 802.3x: flow control IEEE 802.1ab: LLDP/LLDP-MED (Link Layer Discovery Protocol) IEEE 802.1p: LAN Layer 2 Qos/Cos protocol (multicast filtering function) related to traffic priority IEEE 802.1q: VLAN Bridge Operation IEEE 802.1x: Client/Server Access Control and Authentication Protocol IEEE 802.1d: STP IEEE 802.1s: MSTP IEEE 802.1w: RSTP
PoE Protocol	IEEE802.3af (15.4W) IEEE802.3at (30W)
Industry Standard	EMI: FCC Part 15 CISPR (EN55032) class A EMS: EN61000-4-2 (ESD)
Network Medium	10Base-T: Cat3, 4, 5 or above UTP/STP( $\leq 100m$ ) 100Base-TX: Cat5 or above UTP/STP( $\leq 100m$ ) 1000Base-TX: Cat5 or above UTP/STP( $\leq 100m$ ) Multi-mode Fiber: 50/125, 62.5/125, 100/140um Single-mode Fiber: 8/125、8.7/125、9/125、10/125um
<b>Environment</b>	
Working Environment	Working Temperature: -10~50°C Storage Temperature: -40~70°C Working Humidity : 10%~90%, non-condensing Storage Temperature: 5%~90%, non-condensing Working Height: Maximum 10,000 feet Storage Height: Maximum 10,000 feet
<b>Function Indication</b>	

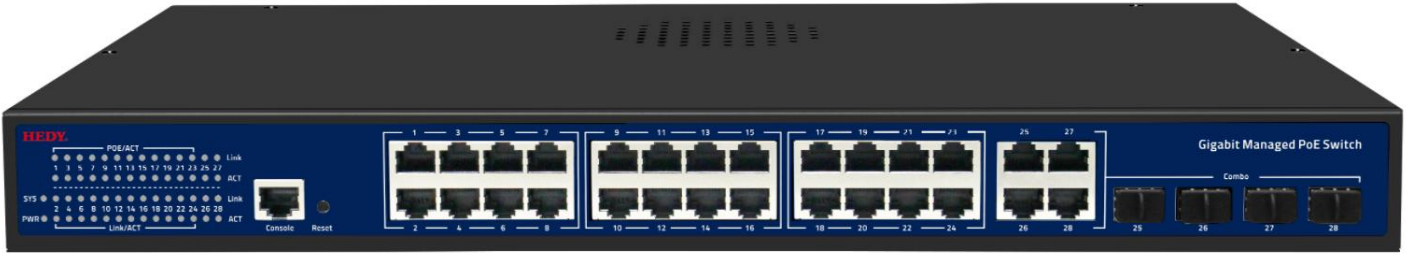
PWR (Power Indicator)	Light on: Powering Light off: No Power
SYS (System Indicator)	Flash: System booting Light on: System Running
Link/Act Indicator (Port 1-24 )	Light on: Link is connected Flash: Data Transmitting Light off: Link is disconnected
PoE Indicator (Port 1-24)	Light on: PoE powering Light off: PoE not powering
Link Indicator (Port 25-28)	Light on: Link is connected Light off: Link is disconnected
Act Indicator (Port 25-28)	Flash: Data Transmitting Light off: No Data Transmitting
<b>Physical Specification</b>	
Structure Size	Product Dimensions: 440*280*44mm Packing Dimensions: 503*385.5*91mm Product N.W: 4.03KG Product G.W: 5.15KG
Packing Info	Carton Dimensions: 520*380*405mm Packing quantity: 4 sets Packing weight: 21.4KG
Power Supply	Input voltage: 100-240VAC, 50/60Hz Power: Max. 440W Output voltage & current: 52V 7.54A & 12V 4A dual output
Power Consumption	Product Consumption: 33W PoE Budget: 390W Total Power Consumption: 423W
Package List	Ethernet switch 1 set, Instruction manual 1 pcs, Certificate1 pcs, Power cord 1 pcs Serial cable 1 pcs, Brackets 1 pair
<b>Order Info</b>	
HNM200-AFGM-SWTG3424S-440	28 Port 10G Uplink 24 Port Gigabit L3 Managed Ethernet POE Switch

**【Software Function】**

Basic Function	Support hardware watchdog, factory reset, system and port LED
	Support global information, statistical information, log information
	Support User management, alarm management, configuration management
	Support Port rate, duplex, flow control, max frame length configuration
	Support Port mirroring, port speed limit, port energy saving
Layer 3 interface	Support three-layer interface
	Support IPv4, IPv6 address configuration
	Support ARP configuration
	Support ND configuration
Layer 3 routing	Support IPv4 static routing
	Support IPv6 static routing
	Support RIP V1/V2
	Support OSPF
DHCP	Support DHCP server
	Support DHCP relay
	Support DHCP Snooping
VLAN	Support 4K VLAN
	Support 802.1Q VLAN, port-based VLAN
	Support Access, Trunk, Hybrid VLAN mode
	Support GVRP (VLAN Registration Protocol)
	Support MAC VLAN, IP VLAN
	Support Voice VLANN
MAC address	Support MAC address automatic learning and aging
	Support Static, dynamic, filtered address table
Security Features	Password protection
	Support Restrict user access based on port number, IP address, MAC address
	Support HTTPS, SSH V1/V2
	Support VLAN-IP-MAC-PORT binding
	Support ARP detection, IP source protection, DoS protection
	Support DHCP Snooping、DHCP Attack protection
	Support 802.1X certification
	Support AAA (Authentication, Authorization, Accounting), Support RADIUS+
	Support Port security, port isolation
Access Control	Support L2(Layer 2) ~ L4(Layer 4) Packet filtering function
	Support Port mirroring, flow rate limiting, QoS remarking
	Support 8 port queues
	Support Port priority, 802.1P priority, DSCP priority

QOS	Support SP, WRR Priority scheduling algorithm
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	Support SP, WRR Priority scheduling algorithm
Spanning Tree	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) & MSTP(IEEE 802.1s) protocol
	Support Multi-instance, Support Aggregate interface
	Support BPDU Protection
Multicast	Support IGMP v1/v2/v3 Snooping
	Support MLD v1/v2 Snooping
	Support Layer 2 multicast fast leave mechanism, querier
	Support Layer 2 IPv4 static multicast
	Support Layer 2 IPv6 static multicast
	Support IGMP v1/v2/v3 Layer 3 multicast
Storm Suppression	Support multicast suppression
	Support broadcast storm suppression
	Support unknown uni-cast suppression
Ring Protection	Support Ring protection
Link Aggregation	Support Static Aggregation
	Support LACP Dynamic Aggregation
	Support based on IP, MAC, mixed load-balancing modes
	Maximum support 8 aggregation groups (8 ports per aggregation group)
IPv6	Support IPv6 Ping、 IPv6 Traceroute、 IPv6 Telnet
	Support IPv6 SSH
	Support IPv6 HTTP, IPv6 HTTPS
Management & Maintenance	Support WEB Management (HTTP, HTTPS)
	Support CLI (Telnet, SSH V1/V2, Local serial port)
	Support SNMP V1/V2/V3
	Support RMON V2
	Support LLDP Device discovery
	Support SNTP Time synchronization
	Support CPU Monitoring, Memory Monitoring
	Support System log, classification warning
	Support Ping, Traceroute detection, cable detection

**[Picture]**



**[Picture Structure ]**

