

## OVERVIEW



- 24\*10/100/1000M POE RJ45 ports+4\*1G/2.5G/10G SFP fiber port Managed Ethernet Convergence/Core switch;
- Comply with IEEE 802.3, IEEE 802.3u, IEEE802.3ab,IEEE802.3z standards;
- PoE port support AF/AT intelligent recognition. Standard power is 15.4W/port, Maximum power: 30W/port;
- Support IPv4/IPv6 L3 soft routing function, QOS, STP/RSTP, IGMP, DHCP, SNMP, WEB, VLAN, ERPS etc.
- POE port can be real-time network management, timed on/off, can force POE working mode, real-time display of POE port power;
- The power supply total is 400W;

**ES3028G** series is a 1/2.5/10G uplink L3 managed PoE switch. It has 24\*10/100/1000Base-T RJ45 ports and 4\*1/2.5/10G SFP+ fiber slot ports. Port 1-24 can support IEEE 802.3af/at standard PoE power supply single port PoE power reaches 30W, and the maximum PoE output power is 400W(at-600W). As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP phone, building visual access control intercom, etc. through a network cable to meet the network environment that needs high-density PoE power supply. It is suitable for hotel, campus, factory dormitory and small and medium-sized enterprise.

**ES3028G-24P-4GS** has the L3 full network management function, supports IPV4/IPV6 management, supports static route full line rate forwarding, supports complete security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode

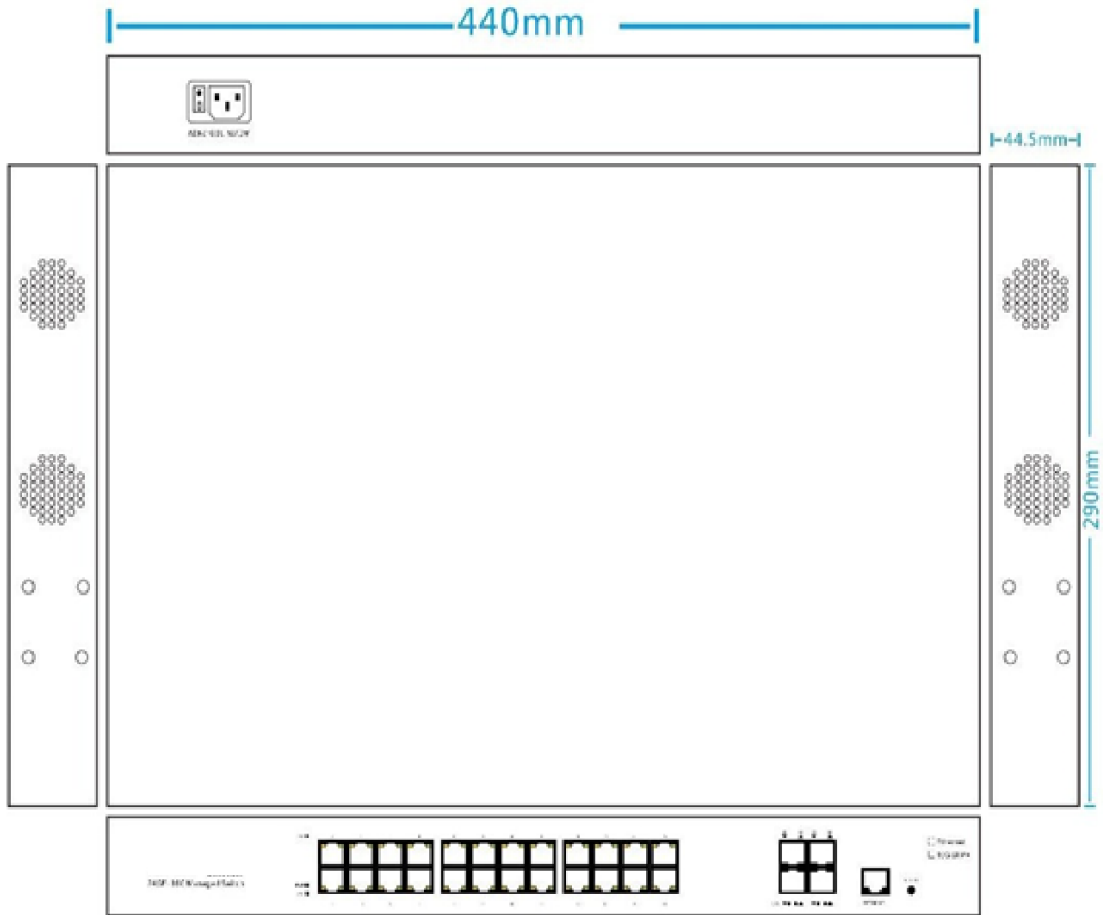
Model	ES3028G-24P-4GS	ES3028G-24P-4GS-AT
Interface	24*10/100/1000Base-T/TX PoE ports (Data/Power) 4*1/2.5/10G uplink SFP+ fiber slot ports (Data) 1*Console RS232 port (115200,N,8,1)	
Managed Type	L3	
POE Port	Port 1-24 can support IEEE 802.3af/at PoE standard	
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3ae 10GBase-SR/LR IEEE802.3x	
PoE Standard	IEEE802.3af/at	
Ethernet Port Feature	Port 1-24 can support 10/100/1000BaseT(X) auto detect, full/half duplex MDI/MDI-X adaptive	
Fiber Port Feature	1/2.5/10G SFP fiber interface (Fiber module is not included, need to order separately, module options include single/multi-mode, single/dual fiber, LC)	
Forwarding Mode	Store and Forward	
Switching Capacity	598Gbps (non-blocking)	
Forwarding Rate	107.14Mpps	
MAC	32K	
Buffer Memory	32M	
Twisted Pair Transmission	10BASE-T:Cat3,4,5 UTP(≤100 meter) ; 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T:Cat5e or later UTP(≤100 meter)	
Optical Fiber Cable	Multi-mode:850nm 0~300M(10G) ,850nm 0~500M (1.25G); Single-mode:1310nm 0~40KM,1550nm 0~120KM.	
Power Supply Pin	Default: 1/2(+),3/6(-)	
Max / Average Power Per Port	30W/15.4W	30W/30W

Total PWR / Input Voltage	400W (AC100-220V)	600W (AC100-220V)
Power Consumption	Standby<8W; Full Load<400W	Standby<8W;Full Load<600W
Power Supply	Built-in power supply, AC 100~220V 50-60Hz 5A	Built-in power supply, AC 100~220V 50-60Hz 6.6A
LED Indicator	Power indicator: PWR (Green); Network indicator: 1-24(Link/Act)/ (Orange),25-28(Link/Act)/ (Green); POE indicator: PoE (Green) SYS:(Green)	
Reset Switch	Yes, One-button factory reset	
Operation TEMP/Humidity	-20~+55°C;5%~90% RH Non condensing	
Storage TEMP /Humidity	-40~+80°C;5%~95% RH Non condensing	
Protection	IEC61000-4-2(ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-5(Lightning protection/Surge): Power:CM±4kV/DM±2kV; Port: ±4kV	
Protection Level	IP30	
Dimension (L*W*H)	440*290*44.5mm	
Net /Gross Weight	<4.4kg / <5.0kg	<4.6kg / <5.3kg
Installation	Desktop, 19-inch 1U cabinet	
Lightning protection / protection level	Lightning protection: 4KV 8/20us; Protection level: IP30	
Certification	CCC, CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS	
Warranty	3 years, lifelong maintenance.	
<b>Managed Series Feature</b>		
Interface	IEEE802.3x flow control (full duplex) Broadcast storm suppression for port rate support speed limit for incoming and offline message traffic, with a minimum particle size of 64Kbps. Temperature protection setting Energy saving configuration of port EEE Ethernet	

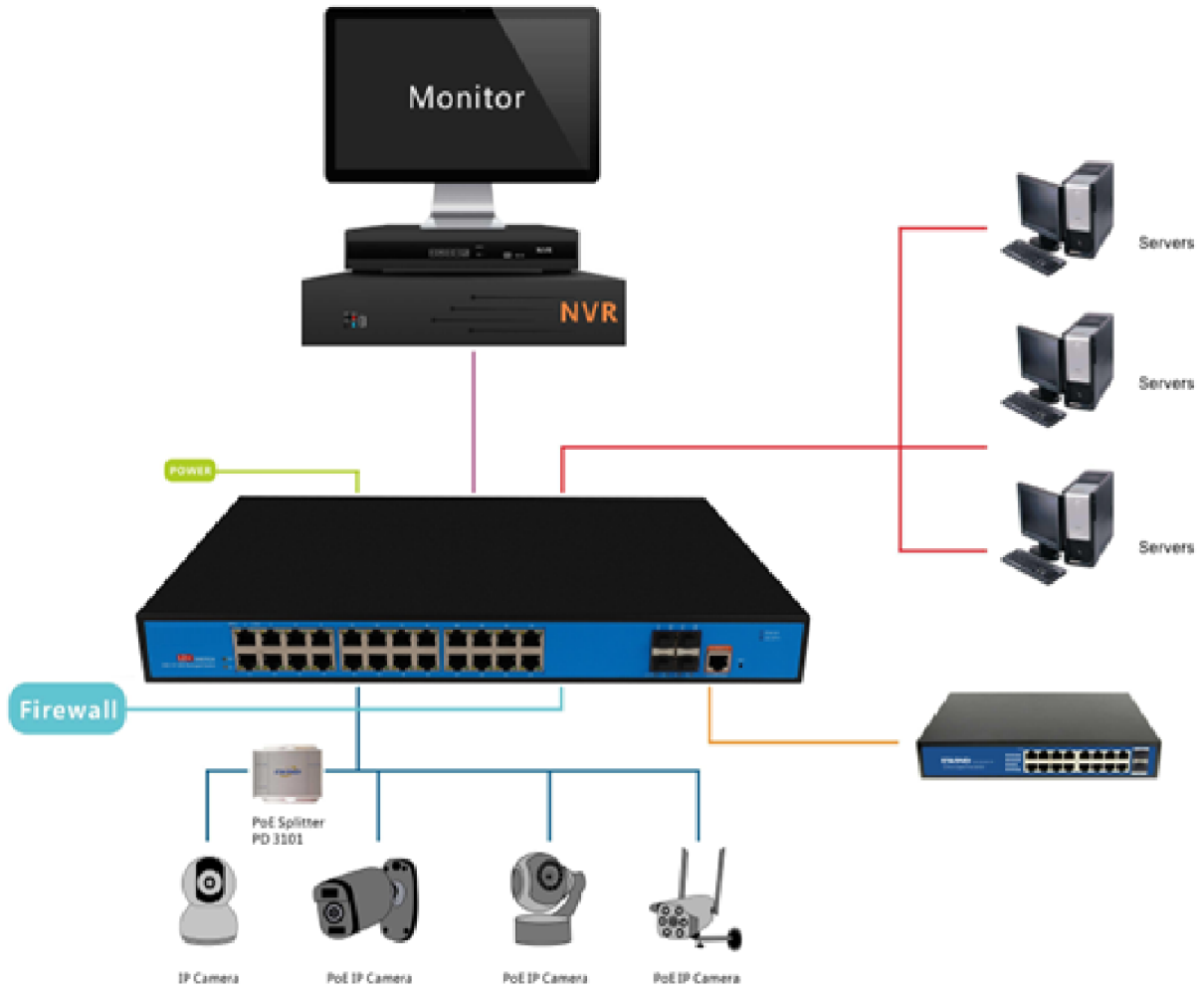
PoE Management	<p>Total power limit of PoE power supply</p> <p>PoE output power allocation per port, close /af/at PoE output priority configuration for each port</p> <p>PoE working state display per port</p> <p>Power delay start</p> <p>PoE work and time scheduling</p>
Layer3 Function	<p>L3 network management function, IPV4/IPV6 management support layer3 of software line speed forwarding.</p> <p>Support different network segments, communication between different VLAN</p> <p>Static routing/default routing, 128 maximum entries</p> <p>ARP protocol, 1024 maximum entries</p> <p>Support Mac filtering function.</p>
VLAN	<p>Support port based VLAN (4K), IEEE802.1q Support protocol based VLAN</p> <p>Support Access, Trunk, Hybrid three types of port configuration</p> <p>Support QinQ configuration</p>
Port Aggregation	<p>Support LACP</p> <p>Support static polymerization</p> <p>Support the largest 8 aggregation groups, each aggregation group supports 8 ports.</p>
Spanning Tree	<p>STP (IEEE802.1d)</p> <p>RSTP (IEEE802.1w)</p> <p>MSTP (IEEE802.1s)</p>
Industrial Ring Network Protocol	<p>Support G.8032 (ERPS), support 255 loops at most, and supports 1024 devices per ring. The self healing time of the ring network is less than 20ms</p>
Multicast	<p>Support IGMP Snooping V1/V2 and support 1024 multicast groups at most. Support the user's quick departure mechanism</p> <p>Support MLD Snooping V1/V2</p> <p>Support multicast VLAN</p>
Image	<p>Bi-directional traffic mirroring supporting the basic port</p>
QoS	<p>Diff-Serv QoS</p> <p>Each port supports 8 output queues</p> <p>Support 802.1p/DSCP priority mapping</p> <p>Support queue scheduling mechanism (SP, WRR, SP+WRR)</p> <p>priority tag Mark/Remark</p> <p>stream based packet filtering</p> <p>Support for stream based redirection</p> <p>Support flow based speed limit</p>

ACL	<p>Support L2 to L4 packet filtering function, can match the first 80 bytes of the message, provide based on the source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL.</p> <p>Support ACL based on port and VLAN</p>
Safety Characteristics	<p>Support user grading management and password protection</p> <p>Support IEEE802.1X authentication / centralized MAC address authentication</p> <p>Support AAA&amp;RADIUS authentication</p> <p>Support the number of MAC address learning restrictions</p> <p>Support MAC address black hole</p> <p>Support SSH 2 to provide secure passwords for user login.</p> <p>Support SSL to ensure data transmission security</p> <p>Support port isolation</p> <p>Support the speed limit function of ARP message</p> <p>Support IP source address protection</p> <p>Support ARP intrusion detection function</p> <p>Support against DoS attacks</p> <p>Support port broadcast message suppression</p> <p>Support host data backup mechanism</p> <p>Binding capabilities of IP+MAC+VLAN+ ports</p>
DHCP	<p>Support DHCP Client</p> <p>Support DHCP Snooping Support</p> <p>Support DHCP Serve</p> <p>Support DHCP Relay</p>
Management And Maintenance	<p>Support Console/AUX Modem/Telnet/SSH2.0 CLI command line configuration</p> <p>Support WEB network management (HTTPS)</p> <p>Support FTP, TFTP, Xmodem, SFTP file download management</p> <p>Support SNMP V1/V2C/V3</p> <p>Support one bond reduction</p> <p>Support NTP clock</p> <p>Support system work log</p> <p>Support Ping detection</p> <p>Support cable state detection</p> <p>Support CPU instant utilization status view</p> <p>Support link layer discovery protocol LLDP</p> <p>Support NMS intelligent management center</p>
System Requirements	<p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later;</p> <p>Cat5e or later Ethernet cable;</p> <p>TCP/ IP, network adapter and network operating system (Microsoft Windows, Linux or Mac OS X) installed on on every computer in the network.</p>

DIMENSION



APPLICATION



PACKING LIST

CONTENT	QTY	UNIT
28 Ports L3 Managed PoE Switch with 10G uplink <b>ES3028G-24P-4GS</b>	1	SET
Hanging Ear	1	PAIR
User Guide	1	PC
Warranty Card	1	PC