

EL-AFGM-SWTG342408S Managed PoE Switch



>> Product Description

32-Ports Managed PoE Switch with 24 PoE Ports, using high-quality high-speed network IC and the most stable POE chip, POE port meets 802.3af / 802.3at standard, this series of PoE Switch can be 10/100/1000M/10G Ethernet. The network provides a seamless connection, and the PoE power port can automatically detect and power the powered devices that comply with the IEEE802.3af / IEEE802.3at standards. The non-POE device intelligently detects no power and only transmits data.

PoE (Power over Ethernet) refers to the technology of providing dc Power supply to some IP-based terminals (such as IP telephone, wireless access AP, network camera, etc.) while transmitting data signals. These devices receiving dc Power supply are called receiving devices.

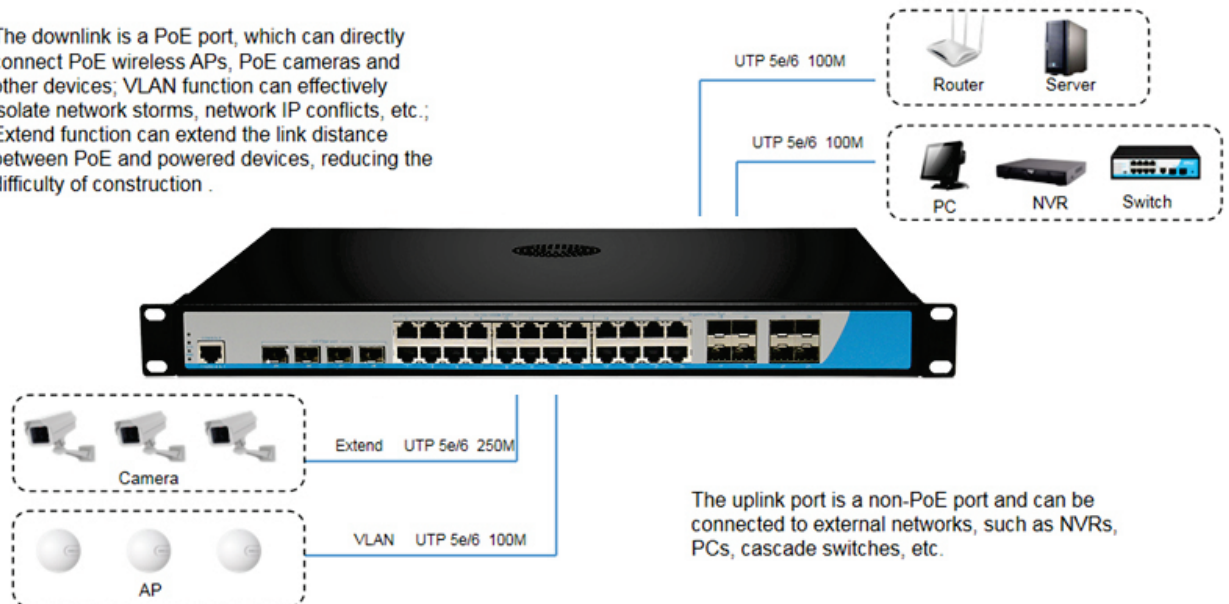
With simple and convenient installation and maintenance methods and rich business features, it helps users to build a safe and reliable high-performance network. It is mainly located in the core or convergence layer of user networks such as industrial parks, buildings, factories and mines, government agencies, and residential broadband; it can be widely used in Ethernet access scenarios such as small and medium-sized enterprises, Internet cafes, hotels, and schools.

>> Application Environment

1. Metropolitan area fiber broadband network: telecommunications, cable TV, network system integration, etc., according to network operators.
2. Broadband private network: suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries.
3. Multimedia transmission: integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications.
4. Real-time monitoring: simultaneous transmission of real-time control signals, images and data.

>> Physical Application Reference

The downlink is a PoE port, which can directly connect PoE wireless APs, PoE cameras and other devices; VLAN function can effectively isolate network storms, network IP conflicts, etc.; Extend function can extend the link distance between PoE and powered devices, reducing the difficulty of construction.



>> Specifications

| General Performance Indicator | |
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| Product Name | 36 Port Gigabit Managed POE Switch |
| Product Model | EL-AFGM-2444S |
| Interface | 24*10/100/1000M POE Ports + 8*Gigabit SFP/TP Combo Ports + 4*10G SFP Port + 1*Console Port |
| Network Protocols | IEEE 802.3 IEEE 802.3u IEEE 802.3ab/ad/az/af/at IEEE 802.3x IEEE 802.1q IEEE 802.1p, QoS IGMP Snooping |
| PoE Parameters | PoE Standard: IEEE802.3at (30W) and IEEE802.3af (15.4w) |
| | PoE compatibility: IEEE 802.3af/at adaptive |
| | POE port output: DC48-55V |
| | Power Pin Assignment: Power over spare pairs 1/2(+) and 3/6 (-) |

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| Port Lightning Protection | General Mode 6KV, Differential Mode 4KV, ESD 15KV. |
| Network Transmission Medium | 10BASE-T: Cat3, 4, 5 UTP (≤ 100 m) 100BASE-TX: UTP (≤ 100 m) above Cat5 1000BASE-TX: UTP (≤ 100 m) above Cat5 |
| Optical | Multimode fiber: 1310nm, 2Km Single mode fiber: 1310nm, 20/40 Km 1550nm, 60/80/100/120Km |
| The LED indicator | PWR, SYN, POE, Link (lines 2, 4) / Act (lines 1, 3) |
| Power Supply | Machine input voltage: AC110-264V; Output: DC52V7.69A Total power: 400W |
| Physical Dimension | Product size (L×W×H): 440mm× 360mm× 45mm Package size (L × W × H): 570mm × 450mm × 90mm Product weight: 3.7kg Package weight: 4.4kg |
| Working Environment | Operating Temperature:-20° ~ 55 ° C; Storage Temperature: -40 ° ~ 85 ° C; Operating Humidity: 10% ~ 95%, non-condensing Working height: up to 10,000 feet (3,000 meters) Storage height: up to 10,000 feet (3,000 meters) |
| Certification | CE, FCC,ROHS,3C |
| MTBF: | 100,000 hours |
| Package Contents | 1. Switch: 1 set 2. Instruction manual: 1 3. Certificate of conformity: 1 4. Warranty card: 1 5. AC power cord 1 6. A pair of hanging ears |
| Warranty | 2 years warranty |
| Technical Indicators | |
| Bandwidth | 128Gbps (non-blocking) |
| Packet Forwarding rate | 96Mpps |
| Processor | ARM® Cortex™-A9 |
| Flash Capacity | 16MB |

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| Memory Capacity | 1024M(1G) |
| MAC | 16K |
| Layer 2 Software Function | |
| Port Management | Enable/Disable Port |
| | Speed, Duplex, MTU Setting |
| | Flow-control |
| | Port Information Check |
| Port Mirroring | Supports both side-way port mirroring, VLAN 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 |
| Layer 3 Software Function | |
| Interface Config | SVI interface |

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| ARP | Static ARP, ARP aging time setting |
| VRRP | VRRP Route backup |
| ND | Support IPv6_ND setting |
| Route | Static Route; RIP (V1/V2) / OSPF(V2) /BGP; RIP/OSPF/BGP support route authentication feature; RIP/OSPF/BGP support route incoming/outgoing, filter feature; |
| Extended Function | |
| 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. |
| Management function | |
| 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 |

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| POE | Support PoE power supply |
| Other functions | Support DHCP Snooping, Option82 |
| | 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 |