

POE SWITCH SYSTEM PRODUCTS

Managed PoE switch 24x10/100/1000M PoE ports and 2 set uplink (TP/SFP) ports , Built-in 600W.



OVERVIEW

The SW-M-24G-2GE-2SFP series is layer two plus full gigabit managed fiber PoE switch independently developed by Focomm. It has 24*10/100/1000Base-T RJ45 ports and 4*100/1000Base-X SFP fiber slot ports . Port 1-24 can support IEEE 802.3af standard PoE power supply. the maximum power for each port is 30W , and the maximum PoE output power is (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 through network cable, to meet the network environment that needs high-density PoE power supply, suitable for hotels, campuses, parks, supermarkets, scenic spots, Factory quarters and SMB small and medium-sized enterprises form a cost-effective network.



FEATURE

Gigabit access, Gigabit combo uplink

- All series supports "10/100/1000M Ethernet port + Gigabit SFP port " combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- Support non-blocking wire speed forwarding
- Support full duplex based on IEEE802.3x and half duplex based on Backpressure

Intelligent PoE power supply function

- 24*10/100/1000Base-T RJ45 ports support PoE power supply to meet the needs of PoE power supply in security monitoring, teleconferencing systems, and wireless coverage.
- Conforms to the IEEE 802.3af PoE power supply standard, automatically recognizes PoE devices for power supply, without damaging non-POE devices. The maximum POE output power of the entire device reaches (600W), and the maximum POE output power of a single port is 30 W.
- The PoE port supports the priority mechanism. When the remaining power is insufficient, the power supply of the high-priority port is preferentially guaranteed to prevent the device from being overloaded.
- Supports the POE network management function, which can be configured through the network management system to implement power allocation, priority setting, port power status check, and time scheduling of PoE ports.

Strong business processing capability

- Support IEEE 802.1Q VLAN, users can flexibly divide VLAN according to needs, and support QinQ configuration.
- Support QoS, support port based, 802.1P based and DSCP based three priority modes and Equ, SP, WRR, SP+WRR four queue scheduling algorithms.
- ACL supports the filtering of data packets by configuring matching rules, processing operations and time permissions, and provides a flexible access control strategy.
- Support IGMP V1/V2 multicast protocol and support IGMP Snooping to meet the multi terminal HD video surveillance and video conference access requirements.
- Support industrial fast V-Ring ERPS, STP, RSTP and MSTP production tree protocol, eliminates two layers of loops, and realizes link backup.
- Support static convergence and dynamic convergence, effectively increases link bandwidth, achieves load balancing, link backup, and improves link reliability.

Complete safety protection mechanism

- Support 802.1X authentication, provide authentication function for LAN computer, and control the authorized status of controlled port according to the result of authentication.
- Support port isolation
- Support port broadcast storm suppression
- Support port +MAC binding, IP+MAC+ port binding function

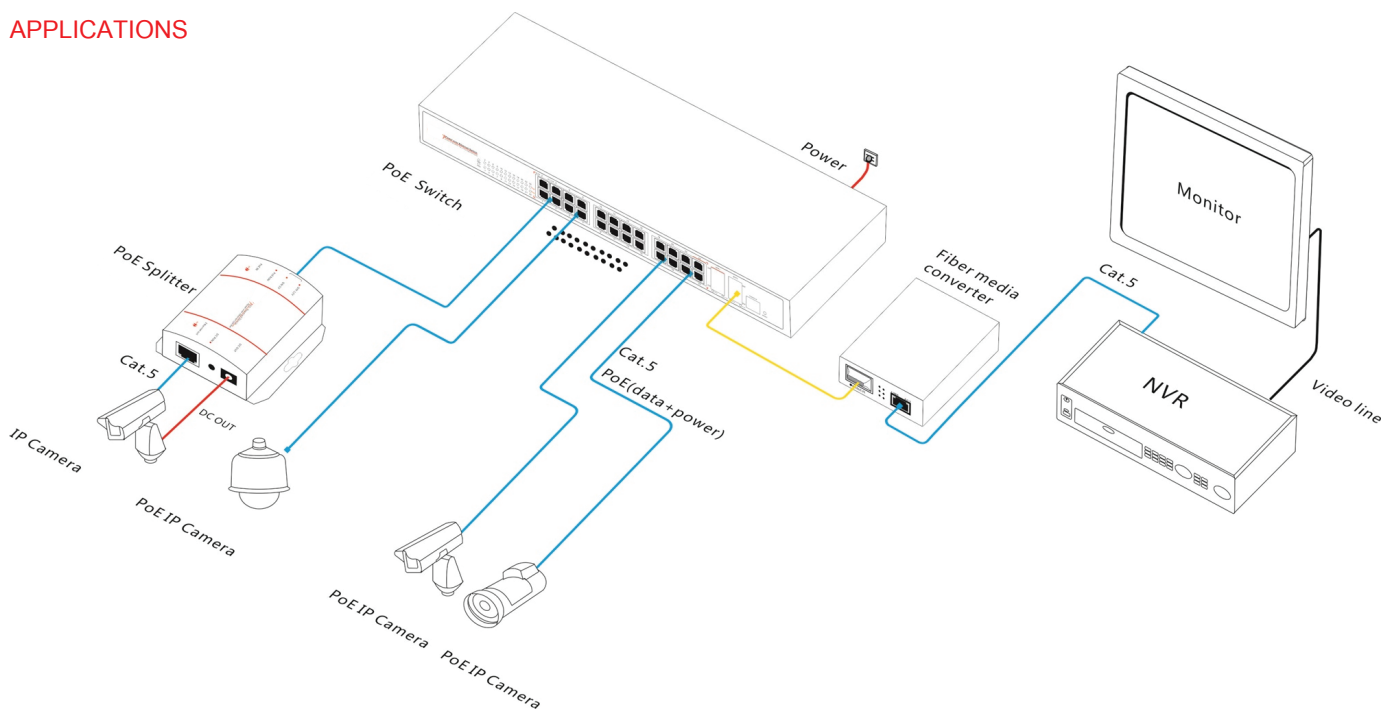
The equipment is stable and reliable

- The host has low power consumption, fan-less mute design, aluminum alloy metal shell, excellent heat dissipation, and ensure stable operation of products.
- The equipment meets the requirements of CCC, CE, FCC and RoHS safety regulations, and is safe and reliable.
- The user can easily understand the working status of the device through the power indicator (PWR), port status indicator (Link), and POE Operation indicator.
- ONV-developed power supply, high redundancy design, provides long-term stable PoE power.

Easy operation and maintenance management

- Support various management and maintenance methods such as Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- Support encryption methods such as HTTPS, SSLV3, and SSHV1/V2 for more secure management.
- Support RMON, system log, port traffic statistics, easy network optimization and transformation.
- Support LLDP, which is convenient for the network management system to query and judge the communication status of the link.
- Support CPU monitoring, memory monitoring, ping detection, cable length detection.

APPLICATIONS



TECHNICAL SPECIFICATION

Model	SW-M-24G-2GE-2SFP-600W
Interface	24*10/100/1000Base-T PoE ports (Data /Power); 4*100/1000Base-X Uplink SFP ports (Data) 1*Console RS232 port (115200,N,8,1)
POE Port	Port 1 - 24 can support IEEE802.3af PoE standard
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x
PoE Standard	IEEE802.3af
Ethernet Port	10/100/1000Base-T,Auto-sensing,Full/half duplex MDI/MDI-X self-adaption
Fiber Port Feature	Gigabit 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 (Full wire speed)
Switching Capacity	256Gbps (Non-blocking)
Forwarding Rate@64byte	38.69Mpps
MAC	8K
Buffer Memory	4M
Forwarding delay	<10us
Jumbo Frames	9.6K
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(\leq 100 meter) ; 100BASE-TX: Cat5 or later UTP(\leq 100 meter) ; 1000BASE-X: Cat5e or later UTP(\leq 100 meter)
Optical Fiber Cable	Multi Mode: 850nm 0-550M;Single Mode: 1310nm 0-40KM,1550nm 0-120KM.
Power Supply Pin	Default: 1/2(+), 3/6(-);
MAX / Average Power Per Port	30W/30W
Total PWR / Input Voltage	600W (AC100-240V)
Power Consumption	Standby:<22W; Full Load:<600W
LED Indicator	Power indicator : PWR (yellow); system indicator : SYS (yellow); network indicator: Link (yellow); POE indicator : PoE (green); Rate indicator: speed: (green) ; SFP fiber port :L/A (green)
Power Supply	Built in power supply,AC100~240V 50-60Hz 6.6A
Operation TEMP / Humidity	-20~+55°C; 5%~90% RH Non-condensing
Storage TEMP / Humidity	-40~+75°C; 5%~95% RH Non-condensing
Dimension	440*290*44.5mm
Net /Gross Weight	<4.6kg / <5.3kg
Installation Method	desktop type ,19 inch 1U cabinet installation
Port lightning protection / protection level	Port 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.

MANAGED SERIES FEATURE

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 IEEE Ethernet
PoE Management	Total power limit of PoE power supply PoE output power allocation per port, close /af/at PoE output priority configuration for each port PoE working state display per port Power delay start PoE work and time scheduling
Layer 3 Function	Support L2+ managed function, Support IPV4/IPV6 management Support layer3 soft routing (weak three tier) forwarding, Support different network segments, communication between different VLAN Support static routing / default routing 128, 1024 ARP software forwarding
VLAN	Support port based VLAN (4K), IEEE802.1q Support protocol based VLAN Support Access, Trunk, Hybrid three types of port configuration Support QinQ configuration
Port Aggregation	Support LACP Support static polymerization Support the largest 8 aggregation groups, each aggregation group supports 8 ports.
Spanning Tree	STP (IEEE802.1d) RSTP (IEEE802.1w) MSTP (IEEE802.1s)
Industrial Ring Network Protocol	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
Multicast	Support IGMP Snooping V1/V2 and support 1024 multicast groups at most. Support the user's quick departure mechanism Support MLD Snooping V1/V2 Support multicast VLAN
Image	Bi-directional traffic mirroring supporting the basic port
QoS	Diff-Serv QoS Each port supports 8 output queues Support 802.1p/DSCP priority mapping Support queue scheduling mechanism (SP, WRR, SP+WRR) priority tag Mark/Remark stream based packet filtering Support for stream based redirection Support flow based speed limit

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

ORDER INFOMATION

PRODUCT	PART NUMBER
Managed PoE switch 24x10/100/1000M PoE ports and 2 set uplink (TP/SFP) ports , Built-in 600W	SW-M-24G-2GE-2SFP-600W