18-Port Gigabit Uplink Managed PoE Switch
HYU-NE-SW-M16PFM001

Key Features

- 100Mbps access, gigabit (TP/SFP) combo port uplink
  ○ All series "10/100M RJ45 port and gigabit TP/SFP combo 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
  ○ 16*10/100Base-TX 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
  ○ Supports the setting of the user-defined time period on the network management interface to control the power supply of the PoE port l-duplex based on IEEE802.3x and half-duplex based on backpressure
  ○ The PoE port priority is configured on the network management When the remaining power is insufficient, the power of the high-priority port is preferentially guaranteed
  ○ View the real-time power of each PoE port on the network management interface

- 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 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, galvanized steel metal casing, 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/Act), and POE operation indicator.

○ Developed power supply, high redundancy design, provides long-term stable PoE power.

- Easy operation and maintenance management

O Support various management and maintenance methods such as Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).

O Support encryption methods such as HTTPS, SSLV3, and SSHV1/V2 for more secure management.

O Support RMON, system log, port traffic statistics, easy network optimization and transformation.

O Support LLDP, which is convenient for the network management system to query and judge the communication status of the link.

O Support CPU monitoring, memory monitoring, ping detection, cable length detection.

Specification

Model	HYU-NE-SW-M16PFM001
Interface Characteristics	
Interface	16*10/100Base-TX PoE ports (Data/Power) 2*10/100/1000M uplink RJ45 ports (Data) 2*1000M uplink SFP slot ports (combo port)
PoE Port	Port 1 - 16 can support IEEE802.3af PoE standard
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX/FX; IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x
PoE Standard	IEEE802.3af/at
Ethernet Port Feature	Port 1-16 10/100Base-T(X), Auto-sensing, Port 17-18: 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/multimode, single/dual fiber, LC)
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	64Gbps (Non-blocking)
Forwarding Rate@64byte	5.36Mpps
MAC	16K
Buffer Memory	4M
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 0-550M; Single Mode: 1310nm 0-40KM,1550nm 0-120KM.
Power Supply Pin	Default: 1/2(+),3/6(-); Optional: 4/5(+),7/8(-)
Max / Average Power per Port	30W / 15.4W
Total PWR / Input Voltage	250W (AC100-240V)
Power Consumption	Standby: < 15W; Full load: <2 40W
LED indicator	Power indicator: PWR (green); data indicator: Link, Link/Act (yellow), PoE indicator: PoE (green); speed indicator: SPD (green)
Power Supply	Built in power supply, AC100 ~ 240V 50-60Hz 4.1A
Physical Parameter	
Operation Temp/Humidity	-20ºC ~ +55ºC, 5%-90% RH Non condensing
Storage Temp/Humidity	-40ºC ~ +75ºC, 5%-95% RH Non condensing
Dimension (L*W*H)	440*225*44mm
Net/Gross Weight	<2.8kg/<3.5kg

Installation	Desktop type, wall-mounted, 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
Managed Series Feature	
Interface	Lighting protection: 4KV 8/20us, Protection level: IP30
PoE Management	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS
VLAN	4K VLAN based on port, IEEE802.1q VLAN based on protocol QinQ configuration
Port Aggregation	LACP Manual aggregation Support the largest 13 aggregation groups, each aggregation group supports 8 ports
Spanning Tree	STP (IEEE802.1d) RSTP (IEEE802.1w) MSTP (IEEE802.1s)
Multicast	IGMP Snooping v1/v2/v3, Max 64 multicast groups Fast log out MLD Snooping v1/v2 Multicast VLAN
Mirroring	Bidirectional data mirroring based on port
QoS	Diff-Serv QoS 8*Output queues of each port 802.1p/DSCP priority mapping Queue Scheduling Algorithm (SP, WRR, SP+WRR) Priority Mark/Remark
ACL	L2-L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range and VLAN etc. Port-based Issuing ACL
Security	Port isolation Broadcast storm control Port + MAC binding, IP + MAC + port binding
DHCP	DHCP Relay DHCP Client DHCP Snooping
Management and Maintenance	Web Management (HTTPS) SNMP V1/V2C/V3 One-key recovery NTP Login Record

Dimensions
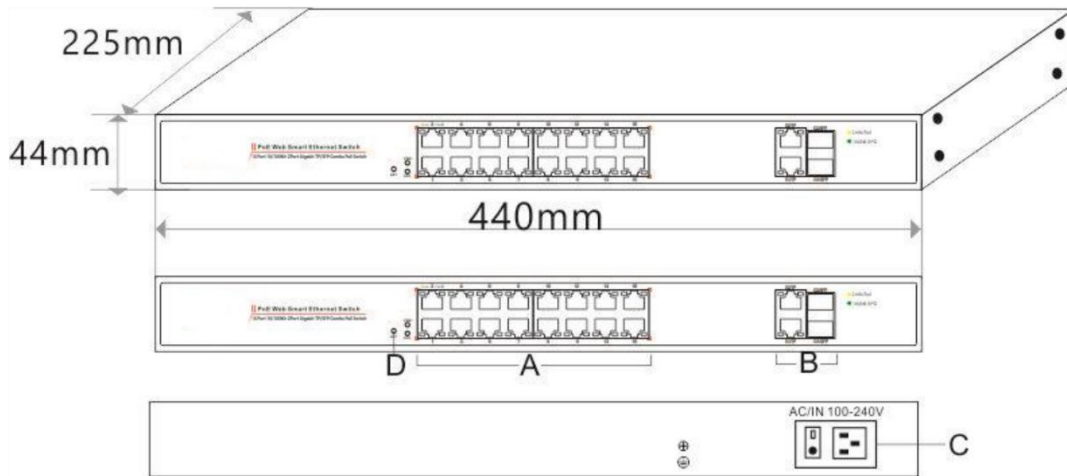
A. 16*PoE Ports   B. 2*Sets Combo Ports
C. 100-240VAC, 50/60Hz   D. Reset

Application