

Managed Full Gigabit 8+2SFP Switch

JHA-MGS28PH



Product Overview

JHA-MGS28PH full Gigabit series managed switch is a self-developed Layer 2 managed switch (supporting PoE function), with 8 10/100/1000Mbps adaptive RJ45 ports (POE optional) and 2 SFP Gigabit optical ports. Each RJ45 port supports MDI/MDIX automatic flipping and line-speed forwarding functions. Among them, ports 1-8 can all support PoE power supply, follow the IEEE802.3af/at standard, and can be used as Ethernet power supply equipment. It can automatically detect and identify standard powered devices and power them through network cables. It adopts a storage and forwarding method, combined with QoS technology, to ensure that bandwidth is effectively allocated to each port, providing stable and reliable power supply and data transmission for high-power AP, network cameras, PTZ network dome cameras, PoE lighting and other security monitoring equipment.

Product Feature

1. Excellent performance

- ☐ -56Gbps (non-blocking)
- ☐ - Packet forwarding rate reaches 14.44Mpps
- ☐ - Can be deployed in the core of the metropolitan area network and provide several last 1 km technologies
- ☐ -Ethernet/IEEE802.3 packet size (64 bytes to 1522 bytes)

□ -Jumbo packets up to 9216 bytes

2. Safe and reliable

- -Provides DOS, distributed denial of service, spoofing and virus defense
- -Supports IEEE802.1x, provides port-based user authentication, network shield technology, security control and policy control list
- -Limits the maximum number of hosts connected to the port, and multi-way binding of Ethernet interfaces to increase bandwidth and system redundancy

3. Easy to use and maintain

- -Can be managed through Web, SNMP and other methods
- -Supports SFP, and is also backward compatible with XFP, etc.

4. Powerful traffic and broadcast management

- -Automatically detects and suppresses broadcast storms, supports IGMP message detection, and effectively limits the flooding of broadcast messages
- -Supports traffic control in full-duplex mode and half-duplex mode
- -Supports rate limiting of Ethernet interfaces with a step length of 1M

Product Specification

Model	JHA-MGS28PH
Product	Managed Gigabit Ethernet Switch
Fixed Port	8 10/100/1000Base-TX PoE ports (data/power), 2 1000M SFP ports
PoE Port	1-8 ports support PoE
Management Port	1 console port
Reset button	1 Reset button
Network Protocol	IEEE 802.3 IEEE 802.3u 100BASE-TX IEEE 802.3ab1000BASE-T IEEE 802.3x IEEE 802.3z 1000BASE-X IEEE 802.3af/at IEEE 802.3ad IEEE 802.3q 、 IEEE 802.3q/p IEEE 802.1w、 IEEE 802.1d 、 IEEE 802.1S STP(Spanning Tree Protocol) RSTP/MSTP(Rapid Spanning Tree Protocol) EPPS ring network protocol

	EAPS ring network protocol
Port Specification	10/100/1000BaseT (X) automatic detection, full/half duplex MDI/MDI-X adaptive
Transmission Mode	Store and Forward (full wirespeed)
bandwidth	56Gbps
Packet Forwarding	14.44Mpps
MAC Address	8K
Buffer	4.1M
Twisted pair transmission	10BASE-T : Cat3,4,5 UTP(≤250 meter) 100BASE-TX : Cat5 or later UTP(≤100 meter) 1000BASE-TX : Cat6 or later UTP(≤1000 meter) 1000BASE-SX:62.5μm/50μm MMF(2m~550m) 1000BASE-LX:62.5μm/50μm MM(2m~550m) or 10μm SMF(2m~5000m)
FLASH	16M
RAM	128M
Watt	≤120W;
LED Indicator	PWR: Power indicator SYS: (System connection indicator) 9, 10: (Optical port connection indicator) Port: (PoE working indicator orange; Link_network connection indicator green)
Power	Built-in power supply AC 100~240V 50/60HZ
Operating Temperature/Humidity	-20~+55°C; 5%~90% RH Non coagulation
Storage Temperature/Humidity	-40~+75°C; 5%~95% RH Non coagulation
Product size (L*W*H)	208mm*140mm*44mm
N.W (kg)	1kg
Installation	Desktop
Lightning protection level	3KV 8/20us; IP30
Safety Certification	3C; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;
Warranty period	1 Year

The following are the main software functions, not all	
Protocol Standards	IEEE 802.3x IEEE 802.3、IEEE 802.3u、IEEE 802.3ab、IEEE 802.3z IEEE 802.3ad IEEE 802.3q、IEEE 802.3q/p IEEE 802.1w、IEEE 802.1d、IEEE 802.1S、IEEE 802.1X
MAC address table	Support 16K MAC address table, automatic update, two-way learning
VLAN	Support port-based VLAN Support up to 4096 VLANs Support VoiceVLAN, QoS can be configured for voice data Support 802.1Q standard VLAN
Spanning Tree	Support STP spanning tree protocol Support RSTP rapid spanning tree protocol Support MSTP rapid spanning tree protocol Support EPPS ring network protocol Support EAPS ring network protocol Support 802.1x authentication protocol
Port aggregation	Support 8 groups of aggregation, each group supports up to 8 ports
Port Mirroring	Supports bidirectional port mirroring
Loop protection	Support loop protection function, real-time detection, rapid alarm, precise positioning, intelligent blocking, automatic recovery
Port Isolation	Supports isolation of UPLINK ports and DOWNLINK with upstream ports
Port flow control	Half-duplex is based on back pressure control; full-duplex is based on PAUSE frames

Software Features

Port rate limit	Support port-based input/output bandwidth management
Multicast Control	IGMPv1/2/3 and MLDv1/2 Snooping Support GMRP protocol registration Multicast address management, multicast VLAN, multicast routing port, static multicast address
DHCP	DHCP Snooping
Storm Suppression	Supports storm suppression of unknown unicast, multicast, unknown multicast, and broadcast types. Storm suppression based on bandwidth adjustment and storm filtering
Safety Features	Supports user port + IP address + MAC address ACL based on IP and MAC Supports security properties based on the number of MAC addresses on the port
QOS	802.1p port queue priority algorithm Cos/Tos, QOS marking WRR (Weighted Round Robin), weighted priority rotation algorithm Support three priority scheduling modes: WRR, SP, and WFQ
Network cable sequence	Support Auto-MDIX function, automatically identify straight-through cable and crossover cable
Negotiation Mode	The port supports auto-negotiation function (auto-negotiation transmission rate and duplex mode)
System maintenance	Supports upgrading package upload, system log viewing, and web restore to factory settings
Network Management	Supports WEB interface management CLI management based on Telnet, TFTP, Console Supports SNMP V1/V2/V3 management Supports RMONV1/V2 RMON management