28 Ports Managed POE Switch

(HR-AFGM-2444S)

The 28-ports Gigabit-managed POE switch is a green energy-saving POE switch independently developed by Hongrui. It adopts high-quality and high-speed network IC and the most stable POE chip. The POE port meets the 802.3af or 802.3at standard. This model can provide seamless connection for 10/100/1000M Ethernet, and the POE power port can automatically detect and power the powered devices that comply with the IEEE802.3af or IEEE802.3at standards. The non-POE devices are forcibly powered and only transmit data.

⬤ Features

1. Can transfer data for network surveillance cameras
2. 24*Gigabit auto-sensing POE ports, 4* Gigabit Combo ports, 1 Console
3. Support IEEE802.3/IEEE802.3i/IEEE802.3u/IEEE802.3ab/IEEE802.3z, IEEE802.3af/at, store-and-forward
4. Compatible with IEEE802.3at (30W) and IEEE802.3af (15.4w)
5. Panel indicator monitoring the status and help failure analysis
6. Fanless design, natural cooling, 1U rack mount
7. Support 802.1x port authentication, support AAA authentication, support TACACS+ authentication
8. Support WEB, TELNET, CLI, SSH, SNMP, RMON management
9. Support POE power management
10. Support port lightning protection Surge: General Mode 6KV, Differential Mode 2KV, ESD:Air 8KV,Contact 15KV.

⬤ Target Industries

1.HD monitor transmission and power supply

2.Wireless AP layout transmission and power supply

3.Network telephone transmission , intelligent house and home system

4.Intelligent transportation supervisory system (ITS)

5. High-speed Way supervisory/Tele-Communication System

6. Security protection system, TV medical treatment

7. Long-distance Muti-media Schooling, Campus monitoring

8. Long-distance broadcast television transmission system

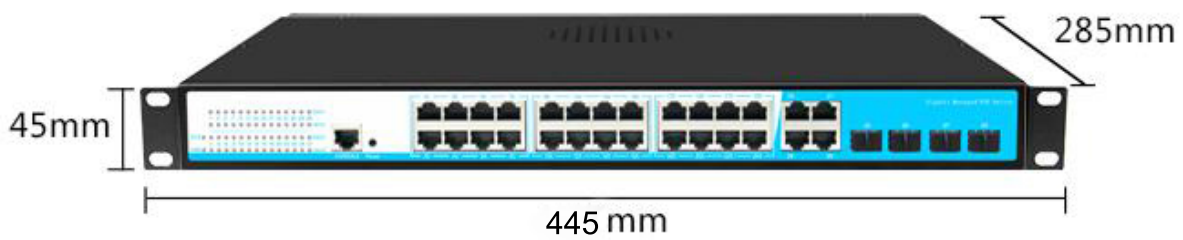9. High-building Security Protection, Military Tele-Com projects

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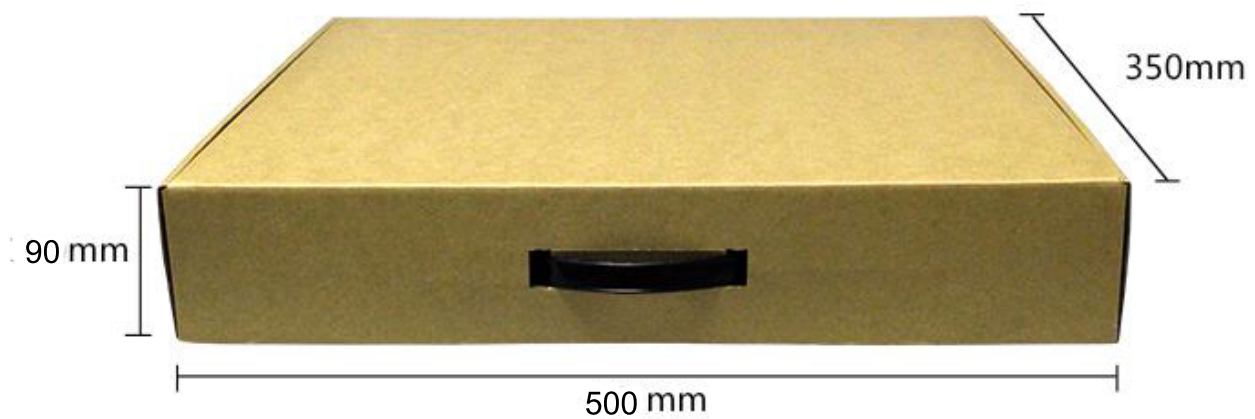
28 ports managed POE Switch

● Physical Pic Reference

● Dimension(445mm*285mm*45 mm, Net Weight:3.9kg/unit

285mm

45mm

445 mm

● Package Dimension(500mm*350mm* 90 mm,Gross Weight:4.5kg/unit

350mm

90 mm

500 mm

⬤ **Technical parameter list**

General Performance Indicator	
Product Name	28 Port Gigabit Managed POE Switch
Product Model	HR-AFGM-2444S
Interface	24*1000M POE ports + 4 Gigabit SFP Combo ports, 1 Console port
Network Protocols	IEEE 802.3 IEEE 802.3u IEEE 802.3ab/ad/az/af/at IIEEE 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: DC52V
	Power Pin Assignment: Power over spare pairs 1/2(+) and 3/6 (-)
Network Transmission Medium	10BASE-T: Cat 5e UTP (≤ 250 m) 100BASE-TX: Cat5 UTP (≤100 m) above Cat5 1000BASE-TX:Cat5 UTP (≤100 m) above Cat5
Optical	Multimode fiber: 850nm, 1310nm,550m/2Km Single mode fiber: 1310nm, 1550nm,20/40 /60/80/120/Km
The LED indicator	SYS, PWR, Link (lines 2, 4) / PoE(lines 1, 3)
Power Supply	input voltage: AC100-240V; Output: DC 52V,7.69A, Total power: 400W
Physical Dimension	Product size (L×W×H): 445mm× 285mm× 45mm Package size (L × W × H): 500mm × 350mm × 90mm Product weight: 3.9kg Package weight: 4.6 kg
Working Environment	Operating Temperature:-20° ~ 50° 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)

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Certification	CE, FCC,ROHS,CCC
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

Technical Indicators

Bandwidth	56Gbps
Packet Forwarding rate	41.66Mpps
Processor	RTL8382M+RTL8214FC+RTL8218B
Flash Capacity	16M
Memory Capacity	1024M(1G)
MAC	8K

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
Port Speed Limit	Supports port-based input / output bandwidth management(32Kbps)
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

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	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

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
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

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