20 Ports Managed POE Switch

(HR-AFGM-1622S)

The 20-Ports Gigabit Managed POE Switch is a Green Energy-Saving POE Switch independently developed by HRUI. It adopts High-Quality and High-Speed Network IC and the most stable POE Chip. The POE port meets the IEEE802.3af or IEEE802.3at 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;

1.   16 x 10/100/1000Mbps auto-sensing POE Ports, 2 x 10/100/1000Mbps Ethernet Uplink Ports, 2 x Gigabit SFP Uplink Ports,   1 x Console Port;

2.   Support IEEE802.3/IEEE802.3i/IEEE802.3uIEEE802.3ab/IEEE802.3z, IEEE802.3af/at, store-and-forward;

3.   Compatible with IEEE802.3at (30W) and IEEE802.3af (15.4w);

4.   Ethernet port supports 10/100/1000M adaptive and POE functions;

5.   Panel indicator monitoring the status and help failure analysis;

6.   Fanless design, Natural Cooling, 1U Rack Mount;

5.   Support 802.1x port authentication, support AAA authentication, support TACACS+ authentication;

6.   Support WEB, TELNET, CLI, SSH, SNMP, RMON management;

7.   Support POE Power Management;

8.   Lightning Protection Surge: General Mode 6KV, Differential Mode 4KV, ESD 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

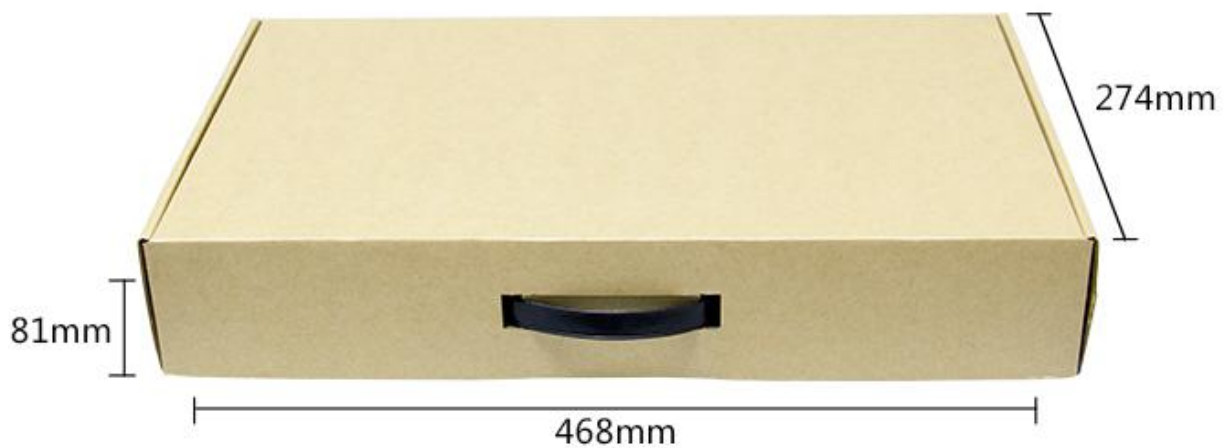Shenzhen HongRui Optical Technology Co.,Ltd

20 Ports Managed POE Switch

◉ Dimension(410mm*185mm*44.5mm, Net Weight: 2.3kg/unit)

◉ Physical Pic Reference

◉ Package Dimension(468mm*274mm*81mm, Gross Weight:2.9kg/unit)

274mm

81mm

468mm

Shenzhen HongRui Optical Technology Co.,Ltd
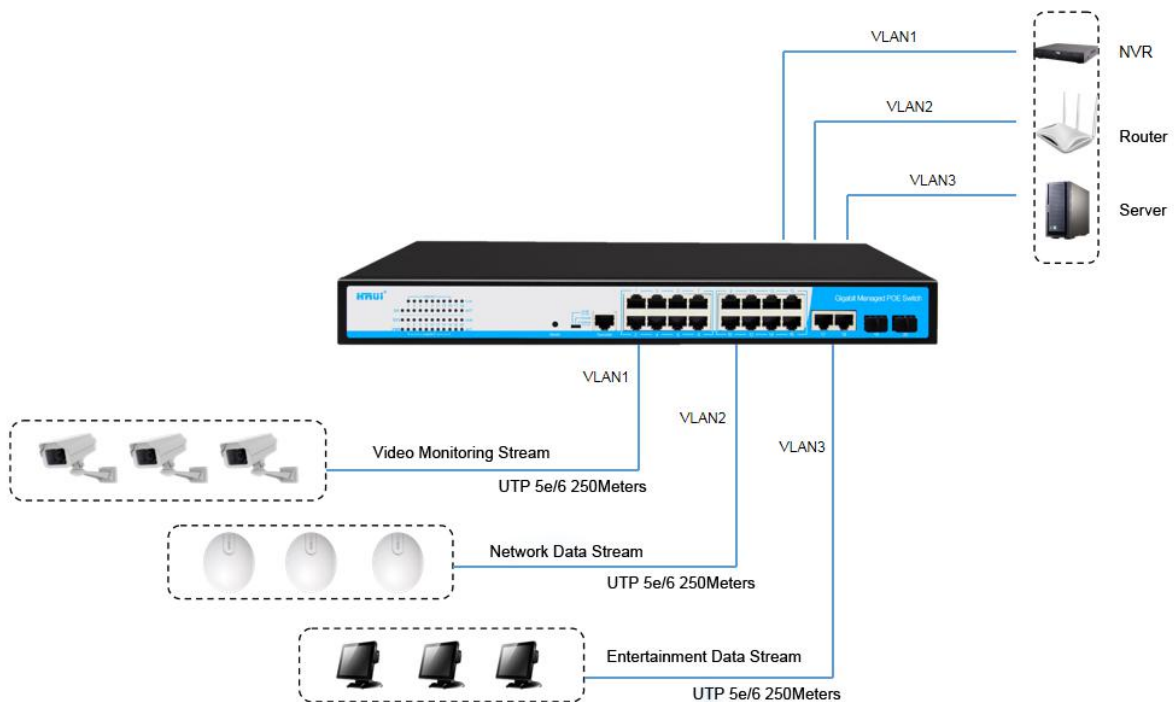
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⬤ Order Information

Product: HR-AFGM-1622S

Description: 20-Ports 10/100/1000M L2 Managed PoE Switch with 16*10/100/1000M PoE Ports + 2*10/100/1000M Ethernet Uplink + 2*1000M SFP Port, IEEE 802.3af / IEEE802.3at;

PoE Power Output: 15.4Watts / 30Watts each port. Total power budget 300Watts.

Accessories in the Package:

	20-Ports 10/100/1000M L2 Managed PoE Switch (HR-AFGM-1622S) * 1pcs
Package Contents	AC Adapter * 1pcs
	User Guide * 1pcs
	Warranty Card * 1pcs

⬤ Physical Application Reference

⬤ **Technical parameter list**

General Performance Indicator	
Product Name	20 Port Gigabit Managed POE Switch
Product Model	HR-AFGM-1622S
Interface	16*10/100/1000M PoE Ports + 2*10/100/1000M Ethernet Uplink Ports + 2*Gigabit SFP Uplink Ports + 1*Console Port
Network Protocols	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3x IEEE 802.3z IEEE 802.1q IEEE 802.1p
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 (-)
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
Reset	Short press restart, long press 5 seconds to restore factory Settings
DIP Function	VLAN: 1-16 ports are isolated from each other, and the PoE Watchdog function is open (hardware takes precedence over software).
	Default: all ports can communicate with each other, PoE Watchdog is closed
	Extend: 13-16 Port: Supports 250m link extension at a rate of 10M, other ports normal, PoE Watchdog open (hardware takes precedence over software).

LED Indicator	PWR	Lighting：Powered
		Un-Light：No Power
	SYS	Flashing: System Start-up
		Lighting: System Running
	SW	Lighting: LVAN
		Un-Light: Extend
		Flashing: Default
	POE/ACT	Lighting：Powered
		Un-Light：No Power
	Link/ACT	Lighting: Link connection
		Flashing: Data transmission
		Un-Light: Link disconnect
Power Supply	Machine input voltage: AC110-264V; Output: DC52V5.76A Total power: 300W	
Physical Dimension	Product size (L×W×H): 410mm×185mm×44.5mm Package size (L×W×H): 468mm×274mm×81mm Product weight: 2.3kg Package weight: 2.9 kg	
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	3 years warranty	

Technical Indicators

Bandwidth	40Gbps (non-blocking)
Packet Forwarding rate	29.76Mpps
Packet Buffer Memory	4M

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Memory Capacity	128MB
Flash Capacity	16MB
Jumbo frame	9.6Kbytes
VLANs	4096
MAC	8K
Forwarding Mode	Store-And-Forward
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
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
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