ShenZhen HongRui Optical Technology Co.,Ltd

14 Ports Gigabit Industrial Managed PoE Switch

(Adopt VTS Industrial Grade Switch Chip)

【Product Description】

14 Port Gigabit Industrial Ethernet PoE Switch, 8 Gigabit PoE Ports + 2 Gigabit Uplink Port+ 4 Gigabit SFP Port (13-14 Port support 2.5G, Compatible with 1.25G/155M) + 1 Console Port, supporting Din rail and wall mounting. Supports dual power input (DC48-55V); -40 to 85℃ working temperature; Certified by industrial environment and support FCC, CE, CCC, RoHS standards; Reliable industrial design ensures uninterrupted automation system Stable operation.

This series of industrial grade switches can be widely used in wind power, electric power, assembly automation, subway PIS, electric power SCADA, sewage treatment, metallurgy, intelligent transportation, rail transportation, military and other industries. It is a green low-power industrial Ethernet switch.

This series of switches provides advanced network management capabilities: redundant ring, loop protection, VLAN, QOS, speed control, port mirroring, and firmware online upgrades. With standardized industrial design, it can meet the stringent requirements of industrial sites. All components use industrial grade for greater reliability, providing redundant, wide-voltage power inputs and outputs for uninterrupted industrial safety communications.

【Features】

1. 8 Gigabit PoE Ports + 2 Gigabit Uplink Port+ 4 Gigabit SFP Port (13-14 Port support 2.5G, Compatible with 1.25G/155M)
2. Support IEEE802.3 , IEEE802.3u , IEEE802.3x , IEEE802.3z / ab , IEEE802.1Q , IEEE802.1p , IEEE802.1d/w
3. Support PoE Power Management , PoE Watch dog
4. Support STP (802.1D), RSTP (802.1w) , 802.1s (MSTP) , ERPS
5. Support SNMP v1/v2/v3
6. Support IGMP Snooping , Static multicast filtering and MLD Snooping
7. Support 802.1x port and AAA Certification , Enhance network security
8. Support WEB, Telnet , CLI,SSH management
9. Support IEEE802.3af (15.4w) , IEEE802.3at (30W)
10. IP40 protection, rugged high-strength metal case , DIN35 Rail mounting
11. EMC grade 4 design , -40 to 85℃ working temperature
12. Support Redundant power supply access, support anti-reverse connection
13. Support Port lightning protection, Surge : General Mode 6KV, Differential Mode2KV,ESD:

15KV, Support EMC EN55032 standard

【Application Environment】

◆ Metropolitan area fiber broadband network: telecommunications, cable TV, network system integration, etc., network operators.

◆ Broadband private network: Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries.

◆ Multimedia transmission: image, voice, data integrated transmission, suitable for remote teaching, conference TV, videophone and other applications.

◆ Real-time monitoring: simultaneous transmission of real-time control signals, images, data

◆ Resistant to harsh environment: Suitable for strong electromagnetic interference, networking in harsh environments at long distances.

【Connection diagram】
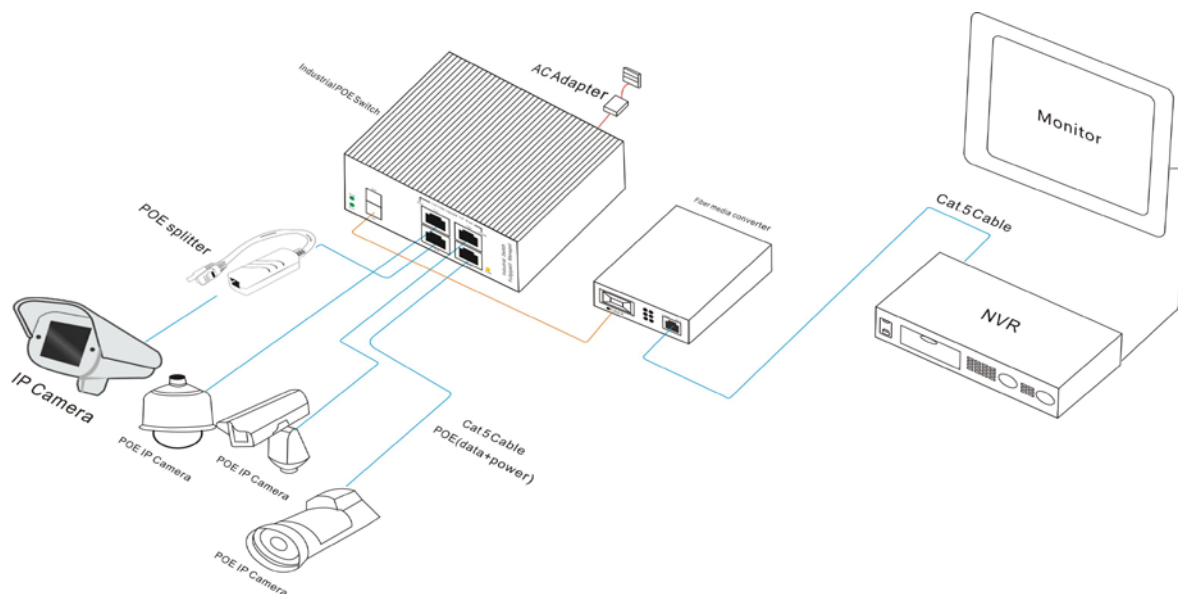
【Technical parameters】

Product Name	14 Ports Gigabit Industrial Managed PoE Switch
Product Model	HR600-AFGM-SWG20824AS
Port Definition	8 Gigabit PoE Ports + 2 Gigabit Uplink Port+ 4 Gigabit SFP Port (13-14 Port support 2.5G, Compatible with 1.25G/155M)

Network Protocols	IEEE802.3 IEEE802.3u IEEE802.3z IEEE802.3ab IEEE802.3x IEEE802.1d IEEE802.1w
POE Parameters	POE Standard: IEEE 802.3af / IEEE 802.3at
	Single PoE Port Power Output: Max: 15.4 W (IEEE 802.3af) Max: 30 W (IEEE 802.3at)
	POE port Auto detect IEEE 802.3af / at devices
	POE Power Output: DC48-55V
	POE Power Pin: 1/2- ; 3/6+
Network Media	10BASE-T: Cat3、4、5 UTP(≤100 M) 100BASE-TX: Cat5 or above UTP(≤100 M) 1000BASE-TX: Cat5 or above UTP(≤100 M)
Fiber Media	Multi-mode：850nm,1310nm Transmission Distance: 550m/2Km Single-mode：1310nm,1550nm Transmission Distance: 20/40/60/80/100/120Km

LED Indicator		
	PWR	Lighting：Powered Un-Light：No Power
	SYS	Lighting：System is operating normally Un-Light：System is not running
	Yellow light	Lighting：PoE Powered Un-Light：No PoE Powered
	Green light	Lighting：Link normally Un-Light：Link disconnect
	G9-G14	Lighting：Fiber Connection is Normal Un-Light：Disconnect

Power Supply	Input Voltage: DC48～55V Type of input: 4 PIN terminal （block V1+V1- V2+ V2-）
Physical structure	Protect grade： IP40 Installation：DIN Rail Product weight： 1 KG Package weight：1.3KG（Without power） Produc Dimensions(L×W×H): 188mm*130mm*64mm Package Dimensions(L×W×H): 250mm×210mm×88mm

	Standard packing(L×W×H): 608mm×500 mm×435mm
	Standard packing quantity : 28 (PCS)
Working Environment	Operating temperature: -40～85℃
	Storage temperature: -40～85℃
	Humidity: 5%~95 % (No condensation)
Industry Standard	EMI: FCC Part 15, CISPR (EN55032) class A
	EMS: EN61000-4-2 (ESD)
	EN61000-4-4 (EFT)
	EN61000-4-5 (Surge)
	Shock: IEC 60068-2-27
	Free fall: IEC 60068-2-32
	Vibration: IEC 60068-2-6
Certification	CE mark, commercial
	FCC Part 15 Class B
	VCCI Class B
	EN 55032 , Class A
MTBF	100,000 hours
Packing list	1. Industrial grade switch: 1 Set
	2. Instruction manual: 1 PCS
	3. Certificate, warranty card: 1 PCS
	4. Serial cable : 1PCS
	5. Operation manual CD : 1 PCS
Warranty	5 years
Hardware Parameters	
Bandwidth	34Gbps
Packet Forwarding Rate	25.29Mpps
RAM	128MB
Flash	16MB
Packet Buffer Memory	4M
Jumbo frame	9.6Kbytes
VLANs	4096
MAC	8K
Forwarding Mode	Store-And-Forward
L2 management	
Port management	Support enable / disable port
	Support speed, duplex, MTU setting, etc.
	Support flow control flow control settings

	Support port mirroring.
	Support port in / out direction
	Support port speed limit
	Support port isolation setting
	Unknown unicast, multicast, broadcast storm suppression
STP	Standard Spanning Tree (STP) 802.1d
	Rapid Spanning Tree (RSTP) 802.1w
	Multiple Spanning Tree (MSTP) 802.1s
Ring Network Protocol	ERPS
Link Aggregation	Support static manual aggregation
	Support LACP dynamic convergence
VLAN	Support Port based VLAN and IEEE 802.1Q VLAN
IGMP Snooping	Support static add / delete
MAC	Support static add / delete
	MAC address learning limit
	Support dynamic aging time settings
L3 (Layer 3 Switching) and Router Function	
Interface Configuration	Support virtual VLAN interface
ARP	Support check ARP
Router Function	Static Router
Extended Function	
ACL	based on the source MAC, destination MAC, protocol type, source IP, destination IP, L4 port number
	Support time-range time management
QOS	based on 802.1p (COS) classification
	Based on DSCP classification
	Based on the source IP, destination IP, port number classification
	Support SP, WRR, DRR scheduling strategy
	Support traffic speed limit CAR
LLDP	supports LLDP link discovery protocol
User Setting	Support add/delete user
Log	User login, operation, status, event log
Port security	Dyning Gasp、Snmp Trap
Prevent Attack	DOS defense
	Support for CPU protection, limited to send CPU message rate

	ARP binding (IP, MAC, PORT binding)
System Management	Device reset, configuration save/restore, upgrade management, time setting, etc.
Management Function	
CLI	Support serial command line management
TELNET	Support serial command line management
SSH	Support SSHv1/2 remote management
SNMP	Support v1/2/3
WEB	Support two layers of settings
PoE	POE Power management

【Ordering Information】

Equipment model	Description
HR600-AFGM-SWG20824AS	8 Gigabit PoE Ports + 2 Gigabit Uplink Port+ 4 Gigabit SFP Port (13-14 Port support 2.5G, Compatible with 1.25G/155M)

【Product Picture】