

# 28-Port 10G Uplink L3+ Managed PoE Switch

HR-AFGM-SWTG342408S-400

## Product Image



## Description

10/100 / 1000Mbps & 10G Ethernet photoelectric switch, based on BCM high-quality chip, the user can choose the optical port mixed configuration, access to fiber optic media modular design, providing 24\*10/100/1000 adaptive PoE ports, 8\*multiplexed Gigabit SFP optical ports / electrical ports, 4\*integrated 10G optical ports, to the convergence and core data exchange to provide sufficient bandwidth; to provide high-capacity switching capacity, support based on three Layer of the ACL function. Perfect security control strategy and CPU protection policy to improve fault tolerance and ensure stable operation of the network and link load balancing. The device supports automatic DoS attack defense and SNMP, IEEE 802.1, spanning tree and spanning tree protocol, Link aggregation and other functions, suitable for small and medium enterprises, campus network, Internet cafes and MAN edge of the use, to meet the long-distance, high-speed, high-bandwidth fast transmission.

## Main Features

1. Support 24 \*10/100/1000 Self-Adaptive POE ports, 8 Combo Gigabit TP/SFP ports+4\*10G SFP ports, 1 Console port.
2. Support IEEE802.3/IEEE802.3i/IEEE802.3u/IEEE802.3ab/IEEE802.3z,IEEE802.3af/at,Store and Forward

3. Compatible with IEEE802.3at (30W) and IEEE802.3af (15.4w)
4. Ethernet port Support 10/100/1000M Self-adaptive and POE function.

## Application Environments

1. Metro fiber broadband: telecommunications, cable television, network system integration, etc., according to network operators
2. Broadband network: for the financial, government, oil, rail, electricity, public security, transportation, education and other industries
3. Multimedia transmission: image, voice, data transmission, for distance learning, conference television, video telephony and other applications
4. Real-time monitoring: real-time control signals, images and data transmission at the same time
5. Anti-harsh environment: for strong electromagnetic interference, long-distance harsh environment network

## Specifications

Specifications	
<b>I/O Interface</b>	
Power	AC 100-240V/50/60Hz
Ethernet	24 * 10/100/1000Mbps PoE Ports
	8 * Combo Gigabit TP/SFP ports
	4 * 10G SFP+ Ports
	1 * RJ45 Console Port
<b>Performance</b>	
Bandwidth	144Gbps

Packet Buffer Memory	96Mpps
DDR SDRAM	256MB
Flash Memory	32MB
Package cache	12Mbit
MAC Address	16K
Jumbo frame	9.2K
VLANs	4096
MTBF	100000 hour
<b>Standard</b>	
Network protocol	IEEE 802.3: Ethernet MAC Protocol
	IEEE 802.3i: 10BASE-T Ethernet
	IEEE 802.3u: 100BASE-TX Fast Ethernet
	IEEE 802.3ab: 1000BASE-T Gigabit Ethernet
	IEEE 802.3z: 1000BASE-X Gigabit Ethernet (optical fiber)
	IEEE 802.3ae: 10G Ethernet (optical fiber)
	IEEE 802.3az: Energy Efficient Ethernet
	IEEE 802.3ad: Standard method for performing link aggregation
	IEEE 802.3x: Flow control
	IEEE 802.1ab: LLDP/LLDP-MED (Link Layer Discovery Protocol)
	IEEE 802.1p: LAN Layer QoS/CoS Protocol Traffic Prioritization(Multicast filtering function)
	IEEE 802.1q: VLAN Bridge Operation
IEEE 802.1x: Client/Server Access Control and Authentication Protocol	

	IEEE 802.1d: STP
	IEEE 802.1s: MSTP
	IEEE 802.1w: RSTP
PoE protocol	IEEE802.3af ( 15.4 W ) ,IEEE802.3at ( 30 W ) ,
Industry Standard	EMI: FCC Part 15 CISPR (EN55032) class A
	EMS: EN61000-4-2 (ESD)、
	EN61000-4-4 (EFT)、
	EN61000-4-5 (Surge)
Network Medium	10BASE-T: Cat3、 4、 5 or above UTP( $\leq 100$ M)
	100BASE-TX: Cat5 or above UTP( $\leq 100$ M)
	1000BASE-TX: Cat5 or above UTP( $\leq 100$ M)
	Multi-mode Fiber: 50/125、 62.5/125、 100/140um
	Single-mode Fiber: 8/125、 8.7/125、 9/125、 10/125um
<b>Certification</b>	
Safety Certificate	CE、 FCC、 RoHS
<b>Environment</b>	
Working Environment	Working Temperature: -10~50°C
	Storage Temperature: -40~70°C
	Working Humidity : 10%~90%, non-condensing
	Storage Temperature: 5%~90%, non-condensing
	Working Height: Maximum 10,000 feet
	Storage heigh: Maximum 10,000 feet
<b>Indication</b>	

PWR(Power indicator)	Lighting: Powered , Un-Light: No Power
SYS(System lights)	Lighting: System is normal , Flashing: system startup
Link(Link light)	Lighting: Connecting , Flashing: Data Transmit , Un-Light: Disconnect
PoE (light)	Lighting: PoE supplying; Un-Light: No PoE supply
Act(data light)	Lighting: Connecting , Flashing: Data Transmit , Un-Light: Disconnect
<b>Mechanical</b>	
Structure Size	Product Dimensions: 440*280*45mm
	Package Dimensions: 570*450*90mm
	Product N.W: 3.63KG
	Product G.W: 4.39KG
Packing Info	Carton Dimensions: 600*495*460mm
	Packing Quantity:5 PCS
	Packing weight: 24KG
Power Voltage	Input Voltage: AC100-240V/50-60Hz
	Power supply: 52V7.7A 400W
Package List	PoE switch: 1 Set、 Instruction manual: 1 PCS、 Certificate: 1 PCS、 Power cord: 1PCS
	Serial cable: 1PCS、 Rack ear: 1 Pairs

<b>Software Function</b>	
Basic function	Support hardware watchdog, factory reset, system and port LED
	Support global information, statistical information, log information
	Support User management, alarm management, configuration management
	Support Port rate, duplex, flow control, maximum frame length configuration

	Support Port mirroring, port speed limit, port energy saving
Layer 3 Interface	Support Layer 3 interface
	Support IPv4, IPv6 address configuration
	Support ARP configuration
	Support ND configuration
Layer 3 Routing	Support IPv4 static routing
	Support IPv6 static routing
DHCP	Support DHCP server
	Support DHCP relay
	Support DHCP Snooping
VLAN	Support 4K VLAN
	Support 802.1Q VLAN, baesd on port VLAN
	Support Access、Trunk、Hybrid VLAN mode
	Support GVRP (VLAN registration protocol)
	Support MAC VLAN 、 IP VLAN
	Support Voice VLAN
MAC address	Support MAC address automatic learning and aging
	Support Static, dynamic, filtered address table
Security features	Password protection
	Support Restrict user access based on port number, IP address, MAC address
	Support HTTPS、SSH V1/V2
	Support VLAN-IP-MAC-PORT binding
	Support ARP detection, IP source protection, DoS protection

	Support DHCP Snooping、 DHCP Attack protection
	Support 802.1X Certification
	Support AAA (Authentication, Authorization, Accounting), Support RADIUS protocol
	Support Port security, port isolation
Access control	Support L2(Layer 2)~L4(Layer 4) Packet filtering function
	Support Port mirroring, flow rate limiting, QoS remarking
QOS	Support 8 port queues
	Support Port priority, 802.1P priority, DSCP priority
	Support SP, WRR Priority scheduling algorithm
Spanning tree	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s) protocol
	Support Multi-instance, Support Aggregate interface
	Support BPDU protection
Multicast	Support IGMP v1/v2/v3 Snooping
	Support MLD v1/v2 Snooping
	Support Layer 2 multicast fast leave mechanism, querier
	Support Layer 2 IPv4 static multicast
	Support Layer 2 IPv6 static multicast
	Support IGMP v1/v2/v3 Layer 3 multicast
Storm suppression	Support multicast suppression
	Support broadcast storm suppression
	Support unknown unicast suppression
Ring protection	Support Ring protection
Link Aggregation	Support Static Aggregation

	Support LACP Dynamic Aggregation
	Support based on IP, MAC, mixed load-balancing modes
	Maximum support 8 aggregation groups (8 ports per aggregation group)
IPv6	Support IPv6 Ping、IPv6 Traceroute、IPv6 Telnet
	Support IPv6 SSH
	Support IPv6 HTTP 、IPv6 HTTPS
Management and Maintenance	Support WEB Management (HTTP、HTTPS)
	Support CLI (Telnet, SSH V1/V2, Local serial port)
	Support SNMP V1/V2/V3
	Support RMON V2
	Support LLDP Device discovery
	Support SNTP Time synchronization
	Support CPU Monitoring, Memory Monitoring
	Support System log, classification warning
	Support Ping, Traceroute detection, cable detection

**Model Picture**





