

16-Port Gigabit SFP and 8-Port Gigabit Combo and 4-Port 10G SFP+ Managed Switch



Product Highlights

- Comply with IEEE 802.1d, IEEE 802.1w, IEEE 802.1s, IEEE 802.1p, IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3ae standards
- L3 management, support DHCP Server, QoS, ACL control, SNMP V1/V2/V3, IGMP Snooping v1/v2
- Support Spanning Tree Protocol STP/RSTP/MSTP (ERPS), Loop Detection and Self Healing, and Remote Loop Monitoring and Control (802.3ah OAM)
- Support multiple VLAN partitions, including MAC VLAN and protocol VLAN
- Support IP address+MAC address+VLAN+port binding, DHCP Snooping, IP source and DAI protection
- Support IPV4/IPV6, RIP v1/v2, OSPFv2
- Support web, TELNET, CLI, SSH, SNMP, RMON management

Hardware Features

Description	Specification
Model	HR-SWTG342408F
Interface	16*1Gbps SFP ports 8*1Gbps Combo ports 4*10Gbps SFP+ ports 1*Console port
Port Standard	IEEE802.3 (Ethernet) IEEE802.3u (Fast Ethernet) IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3z (Gigabit Ethernet Fiber Standard) IEEE 802.3ae (10G Ethernet) IEEE802.3x (Flow Control) IEEE 802.3az (Efficient and Energy saving Ethernet) IEEE 802.3ad (Link Aggregation) IEEE 802.1AB LLDP/LLDP MED (Link Layer Discovery Protocol) IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol (Fast Spanning Tree) IEEE 802.1Q (Virtual Local Area Network) IEEE 802.1p (VLAN Tag) IEEE 802.1X (User Authentication)
Switching Bandwidth	128Gbps
Packet Forwarding Rate	95.23Mpps
Packet Buffer	12Mbit
MAC Address Table	16K
Jumbo Frame	10K
VLAN	VLAN range 1-4094, maximum active VLAN is 4K
Transmission Method	Store and Forward
Power Supply	AC 100-240V 50/60Hz DC 12V 8A

Hardware Features

Description	Specification
Mainboard Power Consumption	38.2W
Structure Information	Product Dimensions: 440*205*44mm Packaging Dimensions: 500*290*85mm Product Net Weight: 3.06KG Product Gross Weight: 3.63KG
Packing Information	Carton Dimensions: 520*445*310mm Packing Quantity: 5PCS Packing Weight: 19.15 KG
Package Contents	Switch 1pcs, Power Cord 1pcs, Manual 1pcs, Certificate of Inspection 1pcs, Rack-mounted kit 1 pair
Fan Quantity	1
Certification	CE, FCC, RoHS
Installation	Desktop, Rack-mounting
Surge Protection	Port Surge: Common mode 6KV Electrostatic ESD: Air 6KV, Contact 8KV (Class B)
Operating Temperature	0~40°C
Storage Temperature	-40~70°C
Operation Humidity	10%~90%, non condensing
Storage Humidity	5%~95%, non condensing
PWR Green LED	On: Powered on Off: Powered off
SYS Green LED	Flashing: System startup in progress On: The system is running normally
Link/ACT	On: Link normal Off: Link blocked Flashing: Data transmitting
Reset	Long press for 6 seconds to restore factory settings

Software Features

L3 Function	
IPv4	IPv4 VLAN Interface
	IPv4 Static Routes
	ARP
IPv6	IPv6 VLAN Interface
	IPv6 Static Routes
	IPv6 ND
RIP	V1/V2
OSPF	Router-ID
	Authentication
	V2
L2 Function	
Port	Port Switch configuration
	Port Description configuration
	Port Speed configuration
	Port Duplex configuration
	Port Flow Control configuration
	Support 10G/2.5G
	Jumbo Frame, Up to 10K
	EEE
	Fiber Module(DDM)
Link Aggregation	Support load balance policy; Base on MAC and IP-MAC
	Static and Dynamic Group
	Support LACP
Storm Control	Up to 8 groups
	Boardcast suppression
	Unknown Multicast
Port Mirroring	Unknown Unicast
	One to one monitor
	Many to one monitor
	Ingress/Egress/Both
Port Security	Up to 4 session groups
	MAC Address Constraints
	Port Security MAC Address
Port Isolation	Protect/Restrict/Shutdown
	Support
Port Rate-limit	Support
Loopback Detection	Support

Software Features

VLAN	<ul style="list-style-type: none"> Access/Trunk/Hybrid VLAN Tunnel (Q-in-Q Tunnel) VLAN range 1-4094, maximum active VLAN is 4K Voice VLAN MAC VLAN Surveillance VLAN Protocol VLAN GVRP
MAC Address	<ul style="list-style-type: none"> Dynamic MAC address Static MAC address Filtering MAC Address
Spanning Tree Protocol	<ul style="list-style-type: none"> STP/RSTP/MSTP BPDU Filter BPDU Guard Edge Port
LLDP	<ul style="list-style-type: none"> LLDP LLDP MED
Multicast	<ul style="list-style-type: none"> IGMP Snooping IGMP V1/V2/V3 Router Port Static IGMP group address IGMP groups filtering Querier MLD Snooping MVR
QoS	<ul style="list-style-type: none"> Traffic classification based, Strict priority and WRR Port Priority 802.1P Priority IP TOS Priority IP DSCP Priority Support up to 8 queues per port Priority Remarking
ERPS Services	<ul style="list-style-type: none"> Only SFP port
DHCP	<ul style="list-style-type: none"> DHCP Server IP Pool Static Binding Option 43 DHCP Relay
Access Protocol	<ul style="list-style-type: none"> HTTP HTTPS Telnet SSHv2 Manager ACL Session Timeout Password Retry Count Silent Time

Software Features

Security	
AAA	RADIUS
	TACACS+
	802.1X
	Base on port/MAC/local/WEB
DHCP Snooping	Global/VLAN
	Option 82
	Circuit ID
IP Source Guard	Support
Dynamic ARP Inspection	Support
DoS	Support
ACL	MAC ACL
	IPv4 ACL
	IPv6 ACL
Diagnostics	
Syslog	Logging Message
	Remote Server
Ping	Support
Traceroute	Support
Copper Test	Support
UDLD	Support
Equipment Management	
Manager Access	Console
	HTTP/HTTPS
	Telnet
	SSH
Manager IP	SNMP
	Static Address
	DHCP Client
	Support IPv4 and IPv6 address
	Manager VLAN
Time Synchronization	DNS
	SNTP
	Manual Time

Software Features

SNMP	V1/V2C/V3
	Community
	V3 User
	Group
SNMP MIB	Trap Host
	RFC 1213 MIB-II
	RFC 1493 Bridge MIB
	RFC 1643 Ethernet MIB
	RFC 2819 RMON MIB (Groups 1, 2, 3 and 9)
	RFC 2863 Interface MIB
	LLDP
RMON	Private MIB
	Statistics
	History Configuration
	Event Configuration
User Management	Alarm Configuration
	Support
Firmware Management	Firmware upgrade
	Double Image; Swap between Active and Alternate firmware image
Configuration Management	Upload and download
	Upload and download via USB interface
Save	Support
Restart	Support
Factory Defaults	Support

Software Features

Standard Compliance

IEEE 802.3x flow control and back pressure

IEEE 802.3ad port trunk with LACP

IEEE 802.1D Spanning Tree Protocol

IEEE 802.1w Rapid Spanning Tree Protocol

IEEE 802.1s Multiple Spanning Tree Protocol

IEEE 802.1p Class of Service

IEEE 802.1Q VLAN tagging

IEEE 802.1x Port Authentication Network Control

IEEE 802.1ab LLDP

RFC 768 UDP

RFC 793 TFTP

RFC 791 IP

RFC 792 ICMP

RFC 2068 HTTP

RFC 1112 IGMP v1

RFC 2236 IGMP v2

RFC 3376 IGMP v3

RFC 2710 MLD v1

FRC 3810 MLD v2

RFC 2328 OSPF v2

Product Structure Diagram

