

12-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
- Support L3 management, 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
- 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

Hardware Features

Description	Specification
Model	HR-SWTG3C12F
Interface	12*10Gbps SFP+ ports 1*Console port
Port Standard	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)
Switching Bandwidth	IEEE 802.1p (VLAN Tag)
	IEEE 802.1X (User Authentication)
	240Gbps
Packet Forwarding Rate	178.56Mpps
Packet Buffer	16Mbit
MAC Address Table	32K
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	29.6W
Structure Information	Product Dimensions:440*205*44mm Packaging Dimensions:500*290*85mm Product Net Weight: 2.50KG Product Gross Weight: 3.12KG
Packing Information	Carton Dimensions: 520*445*310mm Packing Quantity: 5PCS Packing Weight: 16.6KG
Package Contents	Switch 1pcs, Power Cord 1pcs, Manual 1pcs, Certificate of Inspection 1pcs, Rack-mounted kit 1 pair
Fan Quantity	1
Installation	Desktop, Rack-mounting
Surge Protection	Electrostatic ESD: Air 8KV, Contact 6KV (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 Red LED	On: Powered on Off: Powered off
SYS Green LED	Flashing: System startup in progress On: The system is running normally
Link/ACT Green LED	On: Link normal Off: Link blocked Flashing: Data transmitting
10G Green LED	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
	Up to 8 groups
Storm Control	Boardcast suppression
	Unknown Multicast
	Unknown Unicast
Port Mirroring	One to one monitor
	Many to one monitor
	Ingress/Egress/Both
	Up to 4 session groups
Port Security	MAC Address Constraints
	Port Security MAC Address
	Protect/Restrict/Shutdown
Port Isolation	Support
Port Rate-limit	Support
Loopback Detection	Support

Software Features

VLAN	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	Dynamic MAC address
	Static MAC address
	Filtering MAC Address
Spanning Tree Protocol	STP/RSTP/MSTP
	BPDU Filter
	BPDU Guard
	Edge Port
LLDP	LLDP
	LLDP MED
Multicast	IGMP Snooping
	IGMP V1/V2/V3
	Router Port
	Static IGMP group address
	IGMP groups filtering
	Querier
	MLD Snooping
QoS	MVR
	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
ERPS	Priority Remarking
	Only SFP port
Services	
DHCP	DHCP Server
	IP Pool
	Static Binding
	Option 43
	DHCP Relay
Access Protocol	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
UDLD	Support
Equipment Management	
Manager Access	Console
	HTTP/HTTPS
	Telnet
	SSH
	SNMP
Manager IP	Static Address
	DHCP Client
	Support IPv4 and IPv6 address
	Manager VLAN
	DNS
Time Synchronization	SNTP
	Manual Time

Software Features

SNMP	V1/V2C/V3
	Community
	V3 User
	Group
	Trap Host
SNMP MIB	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
	Private MIB
RMON	Statistics
	History Configuration
	Event Configuration
	Alarm Configuration
User Management	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

