

# 12 Port 10G L3 Management Ethernet Switch



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12 Port 10G L3 Management Ethernet Switch, support 12\* SFP+ ports, 1\* RJ45 console port. Perfect security control strategy and CPU protect policy, improve product fault tolerance, ensure stable network operation and link load balancing; the device supports automatic DoS attack prevention, SNMP, IEEE 802.1q, spanning tree, rapid generation tree protocol, link aggregation and other functions. Advanced security features and advanced Quality of Service (QoS), can be used as a core, distribution or access layer switch, with high port density, easy to manage, it is an ideal choice for a variety of commercial network applications.

## Main Feature

- Support 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 standard;
- L3 Management, support DHCP Server, QoS, ACL control, support SNMP V1/V2/V3, IGMP Snooping v1/v2;
- Support STP/RSTP/MSTP ( ERPS), loop detection and self-healing, support remote loopback monitoring and control ( 802.3ah OAM ) ;
- Support multiple VLAN division, mac VLAN, Protocol VLAN, Private VLAN;
- Support IP address + MAC address + VLAN+Port binding, DHCP Snooping, support IP source and DAI protection;
- Support IPV4/IPV6, RIPv1/v2 OSPF

## Application Environment

### **Metro Optical Broadband Network:**

Data network operators such as telecommunications, cable TV, and network system integration, etc.

### **Broadband private network:**

Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries

### **Multimedia transmission:**

Integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications

### **Real-time monitoring:**

Simultaneous transmission of real-time control signals, images and data

## Specification

### I/O Interface

Power	AC100-240V 50/60Hz
Ethernet	12* SFP+ Ports 1* RJ45 Console Port

### Performance

Bandwidth	240Gbps
Pack Forward Rate	178.56Mpps
DDR SDRAM	128MB
Flash Memory	16MB
Pack Cache	16Mbit
MAC Address	32K
Jumbo frame	12K
VLANs	4096
MTBF	100000 Hours

### Standard

Network Protocol	<p>IEEE802.3 (Ethernet)</p> <p>IEEE802.3u (Fast Ethernet)</p> <p>IEEE 802.3ab (Gigabit Ethernet)</p> <p>IEEE 802.3z (Gigabit Ethernet optical fiber)</p> <p>IEEE 802.3ae ( 10G Ethernet )</p> <p>IEEE802.3x (Flow control)</p> <p>IEEE 802.3az ( Energy Efficient Ethernet )</p> <p>IEEE 802.3ad ( link aggregation )</p> <p>IEEE 802.1AB LLDP/LLDP-MED ( Link Layer Discovery Protocol )</p> <p>IEEE 802.1D Spanning Tree Protocol(STP)</p> <p>IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)</p> <p>IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)</p> <p>IEEE 802.1Q ( virtual local area network)</p> <p>IEEE 802.1p ( VLAN tags )</p> <p>IEEE 802.1X ( User Authentication )</p>
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Industry Standard	EMI: FCC 47 CFR Part 15 Subpart B (Class A) EMS: EN61000-4-2 (ESD), EN61000-4-4 (EFT), EN61000-4-5 (Surge)
Fiber Medium	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 Standard</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
<b>Function Indicator</b>	
PWR	On: Powered on    Off: Powered off
SYS	On : System normal,      Flashing : system startup
10G (Link)	Lighting: 10G Link
Link/ACT	On: Connecting;    Flashing: Data Transmit;    Off : Disconnect
<b>Physical Specification</b>	
Structure Size	Product Dimensions: 440*205*44mm Package Dimensions: 500*290*85mm Product N.W: 2.50 KG Product G.W: 3.12 KG
Packing Info	Carton Dimensions : 520*445*300mm Packing Quantity : 5 PCS Packing weight : 16.6 KG
Power Voltage	Voltage: AC100-240V, 50/60Hz Power supply: 12V8A
Consumption	< 30W
Packaging List	Switch: 1 Set, Instruction manual: 1 PC, Certificate: 1 PC, Power cord: 1 PC Serial cable: 1 PC, Rack ear: 1 Pair

Software Function	
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
	RIP
	OSPF
DHCP	Support DHCP server
	Support DHCP relay
	Support DHCP Snooping
VLAN	Support 4K VLAN
	Support 802.1Q VLAN, based 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, TACACS+
	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
Service quality(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 Trace route, IPv6 Telnet
	Support IPv6 SSH
	Support IPv6 HTTP, IPv6 HTTPS
Management & 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 DNS Client
	Support CPU Monitoring, Memory Monitoring
	Support System log, classification warning
	Support Ping, Trace route detection, cable detection

## Order Info

HR-SWTG3C12F

HRUI Commercial L3 Management Full 10G 12\* SFP+ Ethernet Switch

## Panel Instruction



Indicator

Restart Button

1\* RJ45 Console Port

12\* 10G SFP+ Ports

## Product Structure

