



48x1G RJ45
Ports



4x10G SFP+
Ports



Rack
Mountable



Energy
Saving



Web+ CLI
Interface



L3
Management

52-Port 10G Uplink 48-Port Gigabit Layer 3 Managed Ethernet Switch

Introduction

52-port 10 gigabit uplink 48-port gigabit layer 3 managed ethernet switch. Support 48 * 10/100/1000 adaptive electrical ports, 4 * 10 gb SFP+ ports, 1 console port, and 1 USB serial port. Perfect security control strategy and CPU protect policy improve fault tolerance and ensure stable operation of the network and load balancing of the interconnection. The device supports automatic DoS attack defense and SNMP, IEEE 802.1, STP, RSTP, link aggregation, and other functions. Advanced security functions and advanced quality of service (QoS), can be used as core layer, distribution layer or access layer switch with high density port, switch stacking and easy management, are ideal for various commercial network applications.

Key Features

- 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 standards
- L3 management, support DHCP server, QoS, ACL, SNMP V1/V2/V3, IGMP snooping v1/v2
- Support STP/RSTP/MSTP (ERPS), support loop detection and self-healing, support remote loopback monitoring and control (802.3ah OAM), support IPV4/IPV6
- 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
- Lightning protection: common mode ≥ 6 KV, static : contact ≥ 6 KV, air ≥ 8 KV

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Secification

I/O Interface	
Power Input:	AC100-240V, 50/60Hz
Ethernet	48 * 10/100/1000Mbps RJ45 Ports 4 * 10G SFP Ports 1 * RJ45 Console Port 1 * USB Port
Performance	
Bandwidth	176Gbps
Packet Buffer Memory	131Mpps
DDR SDRAM	4G
Flash Memory	256M
Package Cache	16Mbit
MAC Address	32K
Jumbo Frame	12Kbytes
VLANs	4096
MTBF	100000 Hours
Standard	
Network Protocols	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
Industry Standard	EMI: FCC Part 15 CISPR (EN55032) class A EMS: EN61000-4-2 (ESD)、 EN61000-4-4 (EFT)、 EN61000-4-5 (Surge)
Network Media	10BASE-T: Cat3、4、5 or above UTP(≤100 M) 100BASE-TX: Cat5 or above UTP(≤100 M) 1000BASE-TX: Cat5 or above UTP(≤100 M) Multi-mode Fiber: 50/125、62.5/125、100/140um Single-mode Fiber: 8/125、8.7/125、9/125、10/125um
Environmental standards	
Working Environment	Operating temperature: -10~50°C Storage temperature: -40~70°C Operating Humidity: 10%~90%, No condensation Storage Humidity: 5%~90%, No condensation Working height: Up to 10,000 feet Storage height: Up to 10,000 feet

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Certification

Safety Certificate CE、FCC、RoHS

Function indication

Indicator Light PWR(Power indicator), SYS(System lights), Link/ACT(Link light/data light)

Physical specifications

Product Information Product Dimensions: 440*280*44mm
Package Dimensions: 500*365*85mm
Product N.W: 3.8KG
Product G.W: 4.5KG

Packing Information Carton Dimensions: 520*445*385mm
Packing Quantity: 5
Packing weight: 24KG

Voltage Input Voltage: AC100-240V/50-60Hz
Power supply: 12V6A

Packing List 1.Ethernet switch: 1 Set
2.Instruction manual: 1 PCS
3.Certificate, warranty card: 1 PCS
4.Power cord: 1PCS
5.Serial cable: 1PCS
6.Rack ear: 1 Pairs

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

DHCP Support DHCP server
Support DHCP relay
Support DHCP Snooping

VLAN Support 4K VLAN
Support 802.1Q VLAN, baesd on port VLAN
SupportAccess、Trunk、Hybrid VLAN mode
Support GVRP (VLAN registration protocol)
Support MAC VLAN 、IP VLAN
Support Voice VLAN

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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 IP-MAC-PORT-VLAN 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
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 32 aggregation groups (8 ports per aggregation group)

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IPv6	Support IPv6 Ping、IPv6 Traceroute、IPv6 Telnet
	Support IPv6 SSH
Management And Maintenance	Support IPv6 HTTP 、IPv6 HTTPS
	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