MakerLink

Model: G24410GSM

Wire-speed Switching	10G Uplink Port	Rack Mountable	Fanless Quiet Design	Web+ CLI Managed Support	L3 Management

28 Port 10G Uplink 24 Port Gigabit Managed Ethernet Switch

Introduction

28-port 10 Gigabit uplink 24-port Gigabit managed Ethernet switch. Support 24 * 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

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Application Environment

- Metropolitan area fiber broadband network: telecommunications, cable TV, network system integration, etc., network operators.

- 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

Secification

I/O Interface	
Power	Input:AC100-240V，50/60Hz
Ethernet	24 * 10/100/1000Mbps RJ45 Port 4 * 10G SFP Port 1 * RJ45 Console Port 1 * USB Port
Performance	
Bandwidth	128Gbps
Packet Buffer Memory	95.23Mpps
DDR SDRAM	512MB
Flash Memory	32MB
Package Cache	12Mbit
MAC Address	16K
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 Standarl	EMI: FCC Part 15 CISPR (EN55032) class A EMS: EN61000-4-2 (ESD)、EN61000-4-4 (EFT)、EN61000-4-5 (Surge)

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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
Certification	
Safety Certificate	CE, FCC, RoHS
Environment Standard	
Working Environment	Operating temperature: -10~50°C Storage temperature: -40~85°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
Function indication	
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
Act(data light)	Lighting：Connecting , Flashing：Data Transmit , Un-Light：Disconnect
Physical specifications	
Product Information	Product Dimensions: 440*204*44mm Package Dimensions: 500*290*85mm Product N.W: 2.4KG Product G.W: 3.0KG
Packing Information	Carton Dimensions: 520*445*300mm Packing Qantity: 5 PCS Packing weight: 16KG
Voltage	Input Voltage: AC100-240V/50-60Hz Power supply: 12V3A
Packing list	Ethernet switch 1 Set , Instruction manual 1 PCS , Certificate 1 PCS , Power cord 1PCS Serial cable 1PCS , Rack ear: 1 Pairs
Order Information	
ZX-SWTG3424S	28 Port 10G Uplink 24 Port Gigabit Managed Ethernet Switch

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

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Category	Features
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
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
	SupportAAA (Authentication, Authorization, Accounting), Support RADIUS protocal,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) protocal
	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

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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)
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