

## Description

28 Port 10G Uplink 24\* SFP Port Gigabit L3 Managed Ethernet Switch, support 24\* 1000M SFP Ports, 8\* 10/100/1000M adaptive Ethernet Ports(Combo), 4\* 10G SFP Ports, 1\* Console 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.

## Features

- ❖ Support 24\* 10/100/1000M adaptive SFP Ports, 8\* 10/100/1000M adaptive Ethernet Ports(Combo), 4\* 10G SFP +Ports, 1\* Console Port;
- ❖ 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), support 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, RIP, OSPF.

**Shenzhen GZCOM Communication Co., Ltd.**

Email: [sales@gzcomm.com](mailto:sales@gzcomm.com)  
<https://www.gzcomm.com>

- ❖ Lightning protection: common mode 4KV, differential mode 2KV

## 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.

## Specifications

I/O Interface	
Power	AC 100-240V/50-60Hz ( Optional DC 12V )
Ethernet	24* Gigabit SFP Ports 8* Gigabit Ethernet Ports(Combo) 4* 10G SFP+ Ports 1* Console Port
Performance	
Bandwidth	128Gbps
Packet Forwarding Rate	95.23Mpps
DDR SDRAM	128MB
Flash Memory	16MB
Package Cache	12M
MAC Address	16K
Jumbo Frame	12Kbytes
VLANs	4096
Transfer Mode	Storage & Forwarding
MTBF	100000 Hours
Standard	
Network Protocol	IEEE802.3 (Ethernet) IEEE802.3u (Rapid Ethernet)

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	IEEE 802.3ab ( Gigabit Ethernet ) IEEE 802.3z ( Gigabit Ethernet Optical Fiber Standard ) IEEE 802.3ae ( 10G Ethernet ) IEEE802.3x (Flow Control) IEEE 802.3az ( Energy Efficient Ethernet ) IEEE 802.3ad ( Link Aggregation ) IEEE 802.1AB LLDP/LLDP-MED ( Link Layer Discovery Protocol ) IEEE 802.1D Spanning Tree Protocol(STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) IEEE 802.1Q ( Visual LAN ) IEEE 802.1p ( VLAN Label ) IEEE 802.1X ( Client/Server Access Control and Authentication Protocol )
Industry Standard	EMI: FCC Part 15 CISPR (EN55032) class A EMS: EN61000-4-2 (ESD), EN61000-4-4 (EFT), EN61000-4-5 (Surge)
Network Medium	10BASE-T: Cat 3, 4, 5 or above UTP(≤100m) 100BASE-TX: Cat 5 or above UTP(≤100m) 1000BASE-TX: Cat 5 or above UTP(≤100m)
Optical Medium	Multi-mode Fiber: 850nm, 1310nm      Transmission Distance: 550m/2Km Single-mode Fiber: 1310nm, 1550nm      Transmission Distance: 20/40/60/80/100/120Km
<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 Working Height : Maximum 10,000 feet Storage Height : Maximum 10,000 feet
<b>LED Indicator</b>	
Indicator	PWR, SYS, SW, PoE/ACT, Link/ACT
PWR (Power Light)	On: Powered on, Off: Powered off

SYS (System Light)	On: System Normal, Flashing: System Starting or Failed
Link/ACT (Link & Data)	On: Link Connecting, Flashing : Data Transmitting , Off: Link disconnect
<b>Physical Specification</b>	
Structure Size	Product Dimensions: 440*205*44mm Package Dimensions: 500*290*85mm Product N.W: 3.06KG Product G.W: 3.63KG
Packing Info	Carton Dimensions: 520*445*310mm Packing Quantity: 5 PCS Packing Weight: 19.15KG
Power Voltage	Input Voltage: AC 100-240V/50-60Hz (Optional DC 12V) Supply Terminal: AC Power cord or 4 PIN Industrial Terminal (V+ / V-) Industrial terminal power supply: 12V8A
Power Consumption (Max)	38W
Package List	Ethernet switch: 1 Set, Instruction manual: 1 PCS, Certificate: 1 PCS, Power cord: 1PCS, Serial cable: 1PCS, Rack ear: 1 Pairs
<b>Order Info</b>	
GZM-X-8U24F4X1C	28 Port 10G Uplink 24* SFP Port Gigabit L3 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
	Support RIP V1/V2
	Support 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
Safety 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

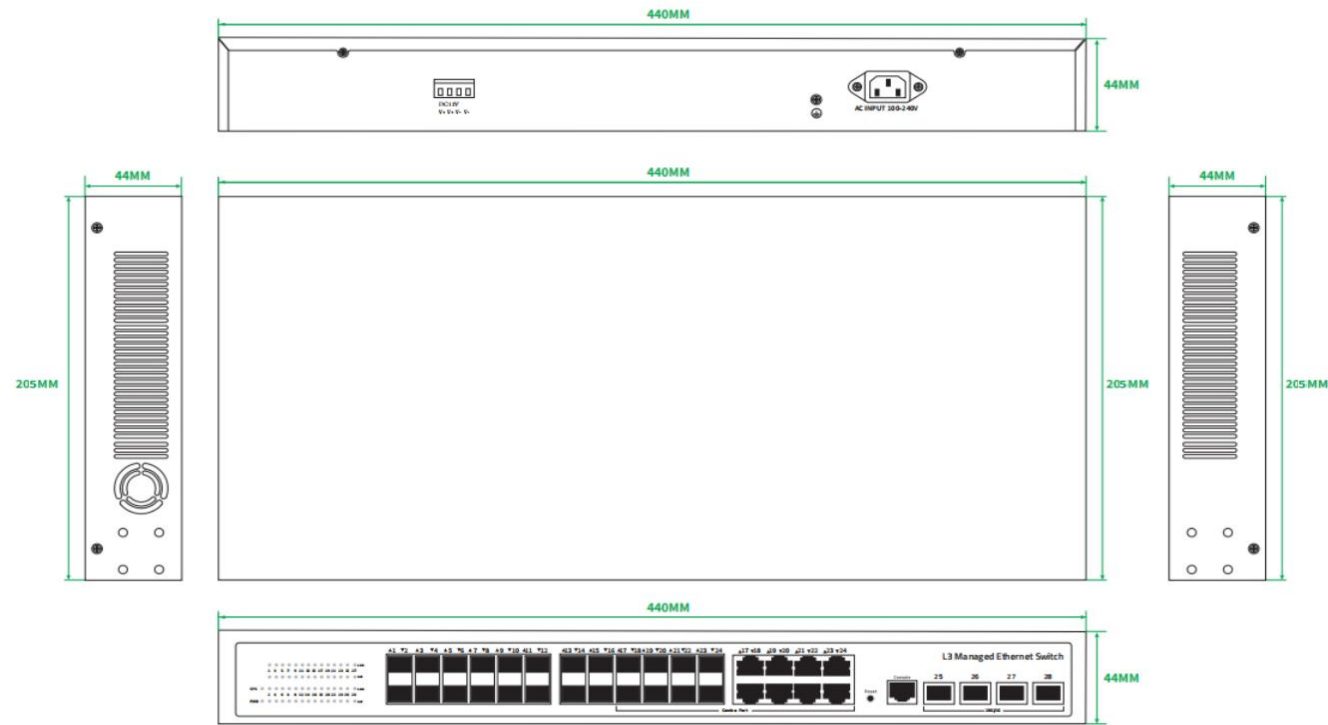
QOS	Support 8 port queues
	Support Port priority, 802.1P priority, DSCP priority
	Support SP, WRR Priority scheduling algorithm
Spanning Tree	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s) protocol
	Support Multi-instance, Support Aggregate interface
	Support BPDU protection
Multicast	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 Traceroute, 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

**L3 Managed Ethernet Switch (GZM-X-8U24F4X1C)**  
**28 Port 10G Uplink 24\* SFP Port Gigabit L3 Managed Ethernet Switch**



	Support SNTP Time synchronization
	Support DNS Client
	Support CPU Monitoring, Memory Monitoring
	Support System log, classification warning
	Support Ping, Traceroute detection, cable detection

**Structure**



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