# 28 Port 10G Uplink 24 Port Gigabit Managed Ethernet Switch

【Product Description】

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.

【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;

【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: image, voice, data integrated transmission, suitable for remote teaching, conference TV, videophone and other applications.

➢ Real-time monitoring: simultaneous transmission of real-time control signals, images, data

【Technical parameters】

| Input/output Port | |
|---|---|
| AC INPUT | AC100-240V，50/60Hz |
| Ethernet Port | 24 * 10/100/1000Mbps RJ45 Port<br>4 * 10G SFP Port<br>1 * RJ45 Console Port<br>1 * USB Port |
| Performance | |
| Bandwidth | 128Gbps |

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| Packet Buffer Memory | 95.23Mpps |
| DDR SDRAM | 512MB |
| Flash Memory | 32MB |
| Package cache | 12Mbit |
| MAC Address | 16K |
| Jumbo frame | 12Kbytes |
| VLANs | 4096 |
| MTBF | 100000 hour |
| **Standard** | |
| Network Protocols | IEEE 802.3：Ethernet MAC Protocol<br><br>IEEE 802.3i：10BASE-T Ethernet<br><br>IEEE 802.3u：100BASE-TX Fast Ethernet<br><br>IEEE 802.3ab：1000BASE-T Gigabit Ethernet<br><br>IEEE 802.3z：1000BASE-X Gigabit Ethernet (optical fiber)<br><br>IEEE 802.3ae：10G Ethernet (optical fiber)<br><br>IEEE 802.3az：Energy Efficient Ethernet<br><br>IEEE 802.3ad：Standard method for performing link aggregation<br><br>IEEE 802.3x：Flow control<br><br>IEEE 802.1ab： LLDP/LLDP-MED (Link Layer Discovery Protocol)<br><br>IEEE 802.1p：LAN Layer QoS/CoS Protocol Traffic Prioritization(Multicast filtering function)<br><br>IEEE 802.1q：VLAN Bridge Operation<br><br>IEEE 802.1x：Client/Server Access Control and Authentication Protocol<br><br>IEEE 802.1d：STP<br><br>IEEE 802.1s：MSTP<br><br>IEEE 802.1w：RSTP |
| Industry Standard | EMI: FCC Part 15 CISPR (EN55032) class A<br><br>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)<br><br>100BASE-TX: Cat5 or above UTP(≤100 M)<br><br>1000BASE-TX: Cat5 or above UTP(≤100 M)<br><br>Multi-mode Fiber: 50/125、62.5/125、100/140um<br><br>Single-mode Fiber: 8/125、8.7/125、9/125、10/125um |
| **Certification** | |
| Safety Certificate | CE、FCC、RoHS |
| **Environmental standards** | |
| Working Environment | Operating temperature: -10~50°C<br><br>Storage temperature: -40~85°C |

| | Operating Humidity: 10%~90%, No condensation<br>Storage Humidity: 5%~90%, No condensation<br>Working height: Up to 10,000 feet<br>Storage height: Up to 10,000 feet |
|---|---|
| **Function indication** | |
| PWR(Power indicator)<br><br>SYS(System lights) | Lighting：Powered , Un-Light：No Power<br><br>Lighting： System is normal , Flashing：system startup |
| Link(Link light)<br><br>Act(data light) | Lighting：Connecting , Flashing：Data Transmit , Un-Light：Disconnect<br><br>Lighting：Connecting , Flashing：Data Transmit , Un-Light：Disconnect |
| **Physical specifications** | |
| Product Information | Product Dimensions: 440*205*44mm<br>Package Dimensions: 500*290*85mm<br>Product N.W: 2.4KG<br>Product G.W: 3.0KG |
| Packing Information | Carton Dimensions: 520*445*310mm<br>Packing Qantity: 5 PCS<br>Packing weight: 16KG |
| Voltage | Input Voltage: AC100-240V/50-60Hz<br>Power supply: 12V3A |
| Packing list | Ethernet switch 1 Set , Instruction manual 1 PCS , Certificate 1 PCS , Power cord 1PCS<br>Serial cable 1PCS , Rack ear: 1 Pairs , Operation manual CD: 1 PCS |
| **Order Information** | |
| GZM-X-4F24R1C | 28 Port 10G Uplink 24 Port Gigabit Managed Ethernet Switch |

【**Software function**】

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| 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 |

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| | 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 |
| 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 |

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| | 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) |
| IPv6 | Support IPv6 Ping、IPv6 Traceroute、IPv6 Telnet |
| | Support IPv6 SSH |
| | 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 |
| Management and Maintenance | Support SNTP Time synchronization |
| | Support CPU Monitoring, Memory Monitoring |
| | Support System log, classification warning |
| | Support Ping, Traceroute detection, cable detection |

**【Product Picture】**



**【Physical structure】**