

GE7722-P28X4-L3

L3 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Stackable Managed Switch

Highlights

- 24-Port 10/100/1000BASE-T with IEEE 802.3af/at PoE+ support
- 4-Port 10G SFP+ slots for high-performance fiber uplinks
- 128Gbps switching capacity with Layer 3 static routing features
- Up to 30W PoE output per port, with 370W total PoE budget
- Recovery time < 10ms @ 3 units for seamless network resilience



Specifications

Model	GE7722-P28X4-L3
Hardware Specifications	
Copper Ports	24 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports (ports1 to 24)
10G SFP+ Ports	4 10GBASE-SR/LR SFP+ ports (ports 25 to 28), Backward compatible with 1000BASE-SX/LX/BX SFP transceiver
Console Port	1 RJ45-to-RS232 serial port (9600, 8, N, 1)
DRAM	256Mbytes
Flash Memory	16Mbytes
Dimensions (W x D x H)	440 x 207.8 x 44mm
Weight	3000g
Power Consumption	System: 25 watts/ 85.25BTU, System+PoE: 408 watts/ 1392.49 BTU
Power Requirements	AC 100~240V, 50/60Hz
Switching Specifications	
Switch Architecture	Store-and-forward
Switch Fabric	128Gbps/non-blocking
Switch Throughput	95.23Mpps
Address Table	16K MAC address table with auto learning function
ARP Table	2K
Routing Table	2040
VLAN Interface	64
IP Interface	64
ACL Table	1024
Shared Data Buffer	1.5MB
Jumbo Frame	9KBytes
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex
Power over Ethernet Specifications	
PoE Standard	IEEE 802.3at PoE+ PSE Backward compatible with 802.3af PoE
PoE Power Supply Type	End-span
PoE Power Output	Per port 54V DC, 30 watts (max.)
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Budget	370 watts (max.)

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IPv4 Layer 3 Functions

IP Routing Protocol	Static route RIPv1/v2 OSPFv2 Policy-based routing (PBR) Hardware-based Layer 3 routing
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Layer 3 Protocol	VRRP v1/v3 ARP ARP Proxy IGMP Proxy
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IPv6 Layer 3 Functions

IP Routing Protocol	RIPng OSPFv3 IPv6 LPM Routing IPv6 Policy-based Routing (PBR) IPv6 VRRPv3 IPv6 RA (Router Advertisement) Hardware-based Layer 3 routing
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Layer 3 Protocol	Configured Tunnels GRE Tunnel ISATAP Tunnel, 6 to 4 tunnels Manual tunnel
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Other	ICMPv6, IPv6 ND
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Layer 2 Functions

Port Configuration	Port disable/enable Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Flow control disable/enable Bandwidth control on each port Port loopback detect
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Port Status	Display each port's speed duplex mode, link status, flow control status and auto negotiation status
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VLAN	802.1Q tagged VLAN, up to 4K VLAN groups 802.1ad Q-in-Q (VLAN stacking) GVRP for VLAN management Private VLAN Edge (PVE) supported Protocol-based VLAN MAC-based VLAN IP subnet-based VLAN
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Spanning Tree Protocol	STP, IEEE 802.1D (Classic Spanning Tree Protocol) RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol) MSTP, IEEE 802.1s (Multiple Spanning Tree Protocol, spanning tree by VLAN) Supports BPDU and root guard
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Multicast	IPv4 IGMP v1/v2/v3 snooping Querier mode support IPv6 MLD v1 snooping Multicast VLAN Register (MVR) Up to 1024 multicast groups (IPv4 + IPv6)
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Link Aggregation	IEEE 802.3ad LACP/static trunk Supports 64 groups with 8 ports per trunk group
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Bandwidth Control	TX/RX/Both At least 64Kbps step
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QoS	8 priority queues on all switch ports Supports strict priority and Weighted Round Robin (WRR) CoS policies, Traffic classification: CAR, HQoS, MAC/IP/TCP/UDP, IEEE 802.1p CoS/ToS, IPv4/IPv6 DSCP, Port-based WRR, Tail-Drop, WRED, flow monitoring and traffic shaping
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Ring	Supports ITU-G G.8032 ERPS Recovery time < 10ms @ 3 units Recovery time < 50ms @ 16units
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Security Functions

Access Control List	Supports Standard and Expanded ACL IP-based ACL/MAC-based ACL Time-based ACL Up to 1024 entries
Security	Port isolation, Port security, "IP+ MAC+ port" binding MAC sticky DAI & IP source guard, PPPoE+ L2/L3/L4 ACL flow identification Filtration Anti-attack from DDoS, TCP's SYN Flood, UDP Flood Broadcast / multicast / unknown unicast storm-control Supports MD5, SHA-256, RSA-1024, AES256
AAA Authentication	TACACS+ and IPv4/IPv6 over RADIUS
Network Access Control	IEEE 802.1x port-based network access control MAC-based authentication RADIUS/TACACS authentication

Switch Management Functions

System Configuration	Console and Telnet Web browser SNMP v1, v2c
Secure Management Interfaces	SSHv1/v2, TLSv1.2 and SNMPv3
System Management	Supports both IPv4 and Ipv6 addressing Supports the user IP security inspection for Ipv4/Ipv6 SNMP Supports MIB and TRAP Supports RMON 1, 2, 3, 9 (four groups) Supports IPv4/IPv6 FTP/TFTP Supports IPv4/IPv6 NTP Supports the RADIUS authentication for IPv4/IPv6 Telnet user name and password The right configuration for users to adopt RADIUS server's shell management Supports Security IP safety net management function: avoid unlawful landing at non-restrictive area Supports IPv4 and IPv6 DHCP server
Event Management	Supports Syslog server for IPv4 and IPv6
Hardware Stacking	8 members max. 2 10G SFP+ slots are functioned as Stacking Up and Down interfaces

SNMP MIBs	RFC 1213 MIB-II RFC 1215 Internet Engineering Task Force RFC 1271 RMON RFC 1354 IP-Forwarding MIB RFC 1493 Bridge MIB RFC 1643 Ether-like MIB RFC 1907 SNMP v2 RFC 2011 IP/ICMP MIB RFC 2012 TCP MIB RFC 2013 UDP MIB RFC 2096 IP forward MIB RFC 2233 if MIB RFC 2452 TCP6 MIB RFC 2454 UDP6 MIB RFC 2465 IPv6 MIB RFC 2466 ICMP6 MIB RFC 2573 SNMP v3 notify RFC 2574 SNMP v3 vacm RFC 2674 Bridge MIB Extensions (IEEE 802.1Q MIB) RFC 2674 Bridge MIB Extensions (IEEE 802.1P MIB)
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Standard Conformance

Regulatory Compliance

FCC Part 15 Class A, CE

Standards Compliance

IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
IEEE 802.3z Gigabit 1000BASE-SX/LX
IEEE 802.3ab Gigabit 1000BASE-T
IEEE 802.3ae 10Gb/s Ethernet
IEEE 802.3at Power over Ethernet plus
IEEE 802.3x flow control and back pressure
IEEE 802.3ad port trunk with LACP
IEEE 802.1D Spanning Tree Protocol
IEEE 802.1w Rapid Spanning Tree Protocol
IEEE 802.1s Multiple Spanning Tree Protocol
IEEE 802.1p Class of Service
IEEE 802.1Q VLAN tagging
IEEE 802.1ad Q-in-Q VLAN stacking/tunneling
IEEE 802.1x port authentication network control
IEEE 802.1ab LLDP
RFC 768 UDP
RFC 783 TFTP
RFC 791 IP
RFC 792 ICMP
RFC 2068 HTTP
RFC 1112 IGMP v1
RFC 2236 IGMP v2
RFC 3376 IGMP v3
RFC 2710 MLD v1
RFC 2328 OSPF v2
RFC 1058 RIP v1
RFC 2453 RIP v2
ITU-T G.8032 ERPS Ring

Environment

Operating

Temperature: 0 ~ 50°C
Relative Humidity: 10 ~ 90% (non-condensing)

Storage

Temperature: -20~70°C
Relative Humidity: 5 ~ 95% (non-condensing)