Navijin

DATASHEET

NETWORK INFRASTRUCTURE / L3 POE MANAGED SWITCH

GE7722-P28X4-L3

L3 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G

PRODUCT PAGE

GE7722-P28X4-L3



Overview

The Navijin GE7722-P28X4-L3 is a Layer 3 managed PoE switch that combines routing and Power over Ethernet – L3 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Stackable Managed Switch. Key specifications include: 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. It powers IP cameras, Wi-Fi access points and IP phones while handling inter-VLAN routing, making it ideal for campuses, hotels, hospitals and multi-floor office buildings.

Key Features

- 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

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.)

IPv4 Layer 3 Functions

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

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

Layer 3 Protocol

- Configured Tunnels
- GRE Tunnel
- ISATAP Tunnel, 6 to 4 tunnels
- Manual tunnel

Other

- ICMPv6, IPv6 ND

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

Port Status

- Display each port's speed duplex mode, link status, flow control status and auto negotiation status

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

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

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)

Link Aggregation

- IEEE 802.3ad LACP/static trunk
- Supports 64 groups with 8 ports per trunk group

Bandwidth Control

- TX/RX/Both
- At least 64Kbps step

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

Ring

- Supports ITU-G G.8032 ERPS
- Recovery time < 10ms @ 3 units
- Recovery time < 50ms @ 16units

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)

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)

Warranty & support Local RMA and technical support through our regional hub in Dubai and our authorized partners. Certificates and project pricing on request. **navijin.com** · **sales@navijin.com**

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