Navijin

DATASHEET

NETWORK INFRASTRUCTURE / L3 POE MANAGED SWITCH

GE5210-P48S4-L3

10G Uplink 52 Port Gigabit L3 Managed Ethernet

PRODUCT PAGE

GE5210-P48S4-L3



Overview

10G Uplink 52 Port Gigabit L3 Managed Ethernet PoE Switch

Key Features

- 48-port 10/100/1000Mbps IEEE 802.3af/at/bt (PoE/PoE+/PoE++)
- 4-port 10G SFP+ fiber interfaces
- IEEE 802.3x full-duplex flow control
- Support IEEE802.3at (30W) and IEEE802.3bt (90W)
- 176Gbps Switching Capacity

I/O Interface

Power	AC 100-240V / 50-60Hz
Ethernet	48x 10/100/1000Mbps Poe Port 4x 10G SFP+ Port 1x RJ45 Console Port 1x USB Port

Performance

Capacity	176Gbps
Packet Forwaring Rate	131Mpps
DDR SDRAM	512Mbyte
Flash Memory	32Mbyte

Packet Buffer Memory	16Mbit
MAC Address	32K
Jumbo Frame	10KBytes
VLANs	VLAN Range 1-4094, with a maximum active VLAN of 4K

Standard

Network Protocol

- IEEE 802.3 Ethernet MAC Protocol
- 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
- IEEE 802.3x Flow Control
- IEEE 802.3az Energy-Efficient Ethernet
- IEEE 802.3ad Standard Method for Performing 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 VLAN Bridge Operation
- IEEE 802.1P (VLAN LABEL)
- IEEE 802.1x Client/Server Access Control and Authentication Protocol

PoE Protocol

- IEEE 802.3af (15.4W)
- IEEE 802.3at (30W)
- IEEE 802.3bt (90W)

Industry Standard

- EMS: EN61000-4-2(ESD)
- EN61000-4-5(Surge)

Network Medium

- 10BASE-T: Cat3, 4, 5 or above UTP/STP(≤100m)
- 100BASE-TX: Cat5 or above UTP/STP(≤100m)
- 1000BASE-TX: Cat5 or above UTP/STP(≤100m)

Others

Safety Certificate	CE, FCC, RoHS
Working Environment	Working Temperature: 0~40°C Storage Temperature: -40~70°C Working Humidity: 10%~90%, non-condensing Storage Temperature: 5%~95%, non-condensing
Indicator	PWR (Power Indicator), SYS (System Indicator), LINK (Link Indicator), ACT (Act Indicator)
PWR	On: Powered On Off: Powered Off
SYS	On: System On Flashing: System Off Or Failed
LINK/ACT	On: Link Connecting Off: Link Off Flashing: Data Transmitting
Structure Size	Product Dimensions: 440x360x44.5mm Product Weight: 5.78kg
Power Voltage	Working Voltage: AC 100-240V 50/60Hz Power Supply: 52V 15.3A / 13V 7.15A

Power Consumption	PoE Total Power: maximum 780W Mainboard Power Consumption: 57.2W

Software Function - L3 Function

IPV4	IPV4 VLAN Interface IPV4 Static Routes ARP
IPV6	IPV6 VLAN Interface IPV6 Static Routes IPV6 ND
RIP	V1/V2
OSPF	Router-ID Authentication V2

Software Function - L2 Function

Port

- Port Switch
- Port Description
- Port Speed
- Port Duplex
- Port Flow Control
- Jumbo, up to 10K
- Support 10G/2.5G (2023.3.2)
- Fiber Module(DDM)

Link Aggregation

- Supports Load Balance Policy; Base on MAC and IP-MAC
- Static and Dynamic Group
- Supports LACP
- Up to 8 Groups

Storm Control

- Boardcast
- Unknown Multicast
- Unknown Unicast

Port Mirroring

- One to One Monitor
- Many to One Monitor
- Ingress/Egress/Both
- Up to 4 Session Groups

Port Security

- MAC Address Constraints
- Port Security MAC Address
- Protect/Restrict/Shutdown

Port Isolation

- Support

Port Rate-Limit

- Support

Loopback Detection

- Support

VLAN

- Access/Trunk/Hybrid
- VLAN Tunnel (Q-in-Q Tunnel)
- Congurable VID from 1 - 4094; max. 4K Static VLAN Groups
- Voice VLAN
- MAC VLAN
- Surveillance VLAN
- Protocol VLAN
- GVRP

MAC Address

- Dynamic Address
- Static Address
- Filtering Address

Spanning Tree Protocol

- STP/RSTP/MSTP
- BPDU Filter/BPDU Guard/EDGE Port

ERPS

- Only SFP Port
- All Port

LLDP

- LLDP
- LLDP MED

Multicast

- IGMP Snooping
- IGMP V1/V2/V3
- Router Port
- Static IGMP Group Address
- IGMP Groups Filtering
- Querier
- MLD Snooping
- MVR

QoS

- Traffic Classification Based, Strict Priority and WRR
- Port Priority
- 802.1P Priority
- IP TOS Priority
- IP DSCP Priority
- Supports up to 8 Queues per Port
- Priority Remarking

PoE Management Functions

PoE Configuration	PoE Temperature PoE Type/Level/Power/Voltage/Current PoE Switch
PoE Schedule	Support
PoE Port Timer Reboot	Support

Services

DHCP	DHCP Server IP Pool Static Binding DHCP Relay Option 43
Access Protocol	HTTP HTTPS Telnet SSHV2 Manager ACL Session Timeout Password Retry Count Silent Time

Security

AAA	Radius TACACS+ 802.1X Base on Port/MAC/Local/Web
DHCP Snooping	Global/VLAN Option 82 Circuit ID
IP Source Guard	Support
Dynamic ARP Inspection	Support
DOS	Support
ACL	MAC ACL IPV4 ACL IPV6 ACL

Diagnostics

Syslog	Logging Message Remote Server
Ping	Support
Traceroute	Support
Copper Test	Support
UDLD	Support

Management

Manager Access

- Console
- HTTP/HTTPS
- Telnet
- SSH
- SNMP

Manager IP

- Static Address
- DHCP Client
- Supports IPV4 and IPV6 Address
- Manager VLAN
- DNS

Time Synchronization

- SNTP
- Manual Time

SNMP

- V1/V2C/V3
- Community
- V3 User
- Group
- Trap Host

SNMP MIB

- RFC 1213 MIB-II
- RFC 1493 Bridge MIB
- RFC 1643 Ethernet MIB
- RFC 2819 RMON MIB (Groups 1, 2, 3 and 9)
- RFC 2863 Interface MIB
- LLDP
- Private MIB

RMON

- Statistics
- History
- Event
- Alarm

User

- Suport

Firmware

- Double Image; Swap Between Active And Alternate Firmware Image. Firmware Upgarde

Configuration

- Upload and Download via USB Interface

Others

- Save, Restart, Factory Defaults

Standards Compliance

- 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 802.1x Port Authentication Network Control
- IEEE 802.1ab LLDP
- IEEE 802.3af Power Over Ethernet
- IEEE 802.3at Power Over Ethernet Plus
- IEEE 802.3bt PoE++ Power Over Ethernet Plus Plus
- RFC 768 UDP
- RFC 793 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 3810 MLD V2
- RFC 2328 OSPF V2

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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