Navijin

DATASHEET

NETWORK INFRASTRUCTURE / INDUSTRIAL L2 POE SWITCH

GE2216-8P8S-L2

Gigabit 8-port Ethernet and 8-port SFP Industrial

PRODUCT PAGE

GE2216-8P8S-L2



5 years	PoE+	IP30	20Gbps
WARRANTY	POWER OVER ETHERNET	PROTECTION	SWITCHING CAPACITY

Overview

Gigabit 8-port Ethernet and 8-port SFP Industrial DIN-rail L2+ PoE Switch

Key Features

- 8-port 10/100/1000Mbps IEEE 802.3af/at PoE(PoE+)
- 8-port 1G SFP+ fiber interfaces
- IEEE 802.3x full-duplex flow control
- Single port power up to 30W
- 20Gbps Switching Capacity
- IP30 protection grade and 6KV Lightning protection 5

Hardware Specifications

Power Supply	DC 48-56V / Redundant dual inputs (4 Pin Phoenix terminal)
Power Consumption	Standby: 10W(without PoE); Full load: <250W(with PoE)
Average Power Port	30W per port
LED Indicator	Link-Act / Power
Dimensions(W x D x H)	149mm x 122mm x 50mm

Weight	≤1.1Kg
Housing	Metal
Installation	DIN-rail mounting
Warranty	5 years

Network Specifications

Ethernet Interface	8x 10/100/1000Mbps RJ45 Ports
Ethernet Port Feature	10/100/1000BaseT(X): Auto negotiation speed; Full/Half duplex mode; Auto MDI/MDI-X connection;
PoE Port	8x 10/100/1000Mbps RJ45 Ports (Average 30W per port)
Standards	IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BASE-TX and 100BASE-FX IEEE 802.3ab for 1000BASE-TX IEEE 802.3i for 10Base-T IEEE 802.3z for 1000Base-X IEEE 802.3x for flow control IEEE 802.3ad for Port Trunk with LACP IEEE 802.3af/at for PoE/PoE+ output IEEE 802.1Q for VLAN Tagging IEEE 802.1D for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1p for Class of Service / IEEE 802.1X for authentication
Optical Fiber Interface	8x 1000Mbps 100/1000BaseSFP Slots
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5 or later UTP(≤100 meter)
Optical Cable	Multi mode: 850nm 0 ~ 550m; Single mode: 1310nm 0 ~ 40Km, 1550nm 0 ~ 120Km
Console Port	1x RS-232 (TxD, RxD, GND), RJ45 (115200, n, 8, 1)

Switching Specifications

Transmission Method	Store-and-Forward
Switching Capacity	20Gbps
Packet Forwarding Rate	14.88Mpps
Packet Buffer	4.1Mbit
Jumbo Frame	9K bytes
MAC Address Table	8K
Port Configuration	Full duplex flow control Port temperature protection settings IEEE green Ethernet energy saving configuration
Layer 3 Function	L2+ network management function Support IPV4/IPV6 management

VLAN	Port-based VLAN(4K) MAC-based VLAN Protocol-based VLAN Voice VLAN
Link Aggregation	LACP / static trunk (8 trunk groups with 8 ports per group)
Spanning Tree Protocol	Spanning Tree Protocol Rapid Spanning Tree Protocol Multiple Spanning Tree Protocol
Industrial Ring Network Protocol	ERPS complies with G.8032 255 Loops at most 1024 Devices per ring Recovery time <20ms
Multicast	IPv4 IGMP(v1/v2) snooping (1024 groups at most) IPv6 MLD (v1/v2) snooping
Mirror	Bi-directional traffic mirroring supporting the basic port
QoS	DiffServ Priority mapping SP, WRR, SP + WRR
Access Control List	IP based ACL MAC based ACL Protocol type based ACL VLAN based ACL
Security Characteristics	User level and password based management RADIUS authentication Port security IP source guard Dynamic ARP inspection Port-based network access control MAC-based authentication
DHCP	DHCP Client / DHCP Snooping

Management

Management Interfaces	Console/AUX Modem/Telnet/Web browser(HTTPS) SNMP v1, v2, v3/SSHv2(CLI)
System Management	Firmware and download management(FTP, TFTP, Xmodem, SFTP) LLDP NTP CPU status view System log Ping Detection Cable state detection

Standards and Certifications

Certification	CE; FCC; RoHS
EMC	EN55022
EMI	CISPR 22, FCC Part 15 Class A

EMS	IEC61000-4-2 ESD: Contact ±8kV; Air ±15kV IEC61000-4-3 RS: 10V/m(80MHz to 1000MHz) IEC61000-4-4 EFT: Power:±2kV; Signal:±2kV IEC61000-4-5 Surge: Power:CM±2kV/DM±1kV; Signal:±4kV IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz) IEC61000-4-8 (Power frequency magnetic field): 100A/m; 1000A/m, 1s to 3s IEC61000-4-9 (Pulsed magnet field): 1000A/m IEC61000-4-10 (Damped oscillation): 30A/m 1MHz IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV IEC61000-4-16 (Common-mode transmission): 30V; 300V, 1s IEC61000-6-2 (Common Industrial Standard)
Freefall	IEC 60068-2-32
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6

Environment Specifications

Lightning Protection	6KV 8/20us
Protection Grade	IP30
Operation Conditions (Temperature/Humidity)	-40°C to 75°C / 5% to 90%
Storage Conditions (Temperature/Humidity)	-40°C to 85°C / 5% to 95%

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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