Navijin

DATASHEET

NETWORK INFRASTRUCTURE / **INDUSTRIAL L2 POE SWITCH**

GE2224-24P4C2S-L2

24GE + 4G Combo L2+ Managed Industrial Switch

PRODUCT PAGE

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Overview

24GE + 4G Combo L2+ Managed Industrial Switch

Key Features

- 24x 10/100/1000Mbps RJ45 ports + 4x Gigabit Combo ports
- Support VLAN, ACL, ERPS ring network
- Support 802.1q VLAN
- Support RSTP/MSTP spanning tree
- Support 802.1X certification

Hardware Specifications

Ports	24x 10/100/1000Mbps RJ45 ports + 4x 10/100/1000Mbps Combo ports 1x RS232 console port(115200, N, 8, 1) 2 sets of V+, V- redundant DC power interface (4 Pin Phoenix terminal)
Network Protocol	IEEE 802.3 (10BASE-T) IEEE 802.3u (100BASE-TX/FX) IEEE 802.3ab (1000BASE-TX) IEEE 802.3i (10Base-T) IEEE 802.3z (1000Base-X) IEEE 802.3x
Ethernet Port Feature	10/100/1000BaseT(X) automatic detection, full/half duplex MDI/MDI-X adaptive
SFP Port Characteristic	Gigabit SFP optical fiber interface, default matching optical modules
Forwarding Mode	Store and Forward(Full Wire Speed)

Switching Capacity	56Gbps
Forwarding Rate	41.664Mpps
MAC Address Table	8K
Packet Buffer Memory	4.1Mb
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
Power Consumption	Standby: ≤18W
LED Indicator	Link/Act: green Power Indicator: green
Operation Temp. / Humidity	-40 ~ 75°C; 5% ~ 90% RH Non-condensing
Storage Temp. / Humidity	-40 ~ 85°C; 5% ~ 95% RH Non-condensing
Dimensions	440mm x 242mm x 45mm
Net / Gross Weight	≤3kg / ≤3.5kg
Lightning Protection	Lightning protection: 6KV 8/20us Protection level: IP30 IEC61000-4-2(ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-3(RS): 10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable: ±2kV; data cable: ±2kV IEC61000-4-5(Surge): power cable: CM±2kV/DM±1kV; data cable: ±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 FCC Part 15/CISPR22(EN55022): Class A IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration) / IEC60068-2-27 (anti shock) / IEC60068-2-32 (free fall)
Certification	CE; FCC; RoHS
Warranty	3 years, Lifelong maintenance
Port	Support IEEE 802.3x flow control (full duplex) Support for broadcast storm suppression based on port rate Support speed limit for incoming and offline message traffic, with a min. particle size of 64Kbps Support port temperature protection settings Support port IEEE green Ethernet energy saving configuration
Layer 3 Function	L2+ network management function / Support IPV4/IPV6 management
VLAN	Port based VLAN, IEEE 802.1q / Protocol based VLAN / Voice VLAN / MAC address-based VLANs
Port Aggregation	LACP / Static polymerization / 8 aggregation groups(8 ports)
Spanning Tree	Support STP (IEEE802.1d) / Support RSTP (IEEE802.1w) / Support MSTP (IEEE802.1s)
Industrial Ring Network Protocol	Support G.8032 (ERPS), support 255 loops at most, and supports 1024 devices per ring The self healing time of the ring network is less than 20ms
Multicast	IGMP Snooping V1/V2 / MLD Snooping V1/V2 / Multicast VLAN

Mirror	Bi-directional traffic mirroring supporting the basic port
QoS	Support Diff-Serv QoS Support 802.1p/DSCP priority mapping Support queue scheduling mechanism (SP, WRR, SP+WRR) Support priority tag Mark/Remark Support stream based packet filtering Support for stream based redirection Support flow based speed limit
ACL	Support ACL based on port and VLAN
Safety Characteristics	Support user grading management and password protection Support IEEE802.1X authentication / centralized MAC address authentication Support AAA&RADIUS authentication Support the number of MAC address learning restrictions Support MAC address black hole Support SSH 2.0 to provide secure passwords for user login Support SSL to ensure data transmission security Support port isolation Support the speed limit function of ARP message Support IP source address protection Support ARP intrusion detection function Support against DoS attacks Support port broadcast message suppression Support host data backup mechanism Binding capabilities of IP + MAC + VLAN+ ports
DHCP	Support DHCP Client / Support DHCP Snooping
Management And Maintenance	Support Console/AUX Modem/Telnet/SSH 2.0 CLI command line configuration Support WEB network management (HTTPS) Support FTP, TFTP, Xmodem, SFTP file download management Support SNMP V1/V2C/V3 Support one bond reduction Support NTP clock Support system work log Support Ping detection Support cable state detection Support CPU instant utilization status view Support link layer discovery protocol LLDP center

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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