

Product Model

LGS2000-F-8GE4GF-TSN

Product Image



Product Overview

LGS2000-F-8GE4GF-TSN Time Sensitive Network Switch is a card-rail type managed industrial Ethernet switch with integrated Time Sensitive Network (TSN) features, providing four 10GBase-X/1.25G SFP+ interfaces; eight 10/100/1000Base-T(X) RJ45 electrical ports, which can negotiate the port rate and duplex mode with the peer device through self-negotiation rate and duplex mode. Current supported time sensitive network infrastructure protocols include: IEEE 802.1AS, IEEE 802.1Qbv, IEEE 802.1Qci, 802.1CB, 802.1Qbu, etc. S can support IEEE 1588 PTPV2, DRP (self-healing time <20ms), RSTP/MSTP, VLAN, multicast, QoS, SSH, etc. SSH and other rich Layer 2 software features, and support CLI, Telnet, Web multiple management methods and SNMPv1/v2c/v3-based network management software. With IP40 protection metal shell, anti-vibration card rail base, extreme ambient temperature adaptability and good EMC performance, the series products have the ability to work stably and reliably in harsh industrial environments.

Technical Specification

Switching function
 Support VLAN, PVLAN
 Support GVRP
 Support port aggregation, LACP
 Support port flow control
 Support flow-based speed limit
 Support global broadcast storm suppression

TSN time-sensitive network
 Support IEEE 802.1AS
 Support IEEE 802.1Qbv
 Support IEEE 802.1Qci
 Support IEEE 802.1CB
 Support IEEE 802.1Qbu

Security Features
 Support HTTPS/SSL
 Support SSH
 Support TACACS+
 Support IEEE 802.1X
 Support RADIUS
 Support user hierarchy
 Support port MAC address binding

Redundancy technology
 Support DT-Ring, DT-Ring+, DT-VLAN protocol family, self-healing time <50ms
 Support DRP/DHP, self-healing time <20ms
 Support STP/RSTP/MSTP

Management Features
 Support IGMP snooping
 Support GMRP
 Support static multicast
 Support IGMPv2/v3
 Support QoS, 802.1p(CoS), DSCP
 Support SP, WRR queue scheduling
 Support ACL
 Support Console, Telnet, WEB management
 Support SNMPv1/v2c/v3, can be centrally managed by Kyvision
 Support SFTP/HTTP software upgrade
 Support power alarm, IP/MAC conflict alarm, memory/CPU utilization alarm, port alarm, ring alarm, port traffic alarm, CRC and packet loss rate alarm, SFP interface receive optical power alarm and transmit optical power alarm
 Support DDM (SFP interface)
 Support loop detection
 Support RMON
 Support port mirroring
 Support Syslog
 Support LLDP
 Support Link-check
 Reset/Support reboot and restore default configuration
 Support DHCP server/snooping/ident, DHCP Option 82, support ARP

Power Supply
 L2: 24-48VDC(18-72VDC)
 HV:100-240VAC,50/60Hz; 110-220VDC(85-284VAC/77-300VDC)
 Power <25W
 Overload protection Support;
 Reverse connection protection Support;
 Redundancy protection Support

Clock Function
 Support SNTP Client
 Support PTP, IEEE 1588 (hardware and software support)

Switching Properties
 Priority Queue 8
 Number of VLANs 4K
 VLAN ID 1-4094
 Number of multicast groups 8K
 MAC table 32K
 Packet buffer 32Mbit

Ports
 4x10GBase-X SFP+ interfaces, 8x10/100/1000Base-X SFP interfaces

Construction
 Enclosure Metal material
 Heat dissipation method Natural cooling, no fan
 Protection class IP40
 Dimensions 70.6mm*153mm*120mm(W*H*D)
 Weight <2kg
 Mounting DIN rail or wall-mounted

Front Panel Indicator
 Run indicator: Run
 Alarm indicator: Alarm
 Power indicator:PWR1,PWR2
 Ring indicator: Ring
 Interface indicator:Link/ACT, Speed(electric port),Link/ACT(optical port)

Standards
 IEEE 802.3(10Base-T)
 IEEE 802.3u(100Base-T)
 IEEE 802.3ab(1000Base-T)
 IEEE 802.3z(1000Base-SX/LX)
 IEEE 802.3ae(10GBase-X)
 IEEE 802.3ad(port aggregation)
 IEEE 802.3x(flow control)
 IEEE 802.1p(Priority)
 IEEE 802.1Q(VLAN)
 IEEE 802.1w(RSTP)
 IEEE 802.1s(MSTP)
 IEEE 802.1x

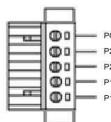
Environment
 Operating temperature -40℃ ~ +75℃
 Storage temperature -40℃ ~ +85℃
 Relative humidity 5-95% non-condensing

Certification
 CE, FCC, RoHS

Quality Assurance
 MTBF: 360,000 hrs

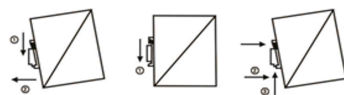
Installation

Power Access



Spin 5.08mm terminals
 Power Input: 12V-36VDC
 P1&P2 dual redundant power supplies,
 Support reverse connection protection function

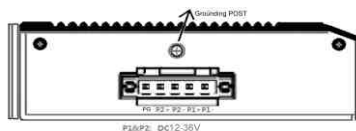
DIN-rail mounting



Wall mounting



Ground protection



Mechanical Drawing

