

Product Model

LGS2000-F-8GE-M12-M

Product Image



Product Overview

LGS2000-F-8GE-M12-M Industrial managed Gigabit Ethernet switch provides 8 Gigabit Ethernet electrical interfaces. It has complete Ethernet switching performance and powerful Layer 2 network functions, including VLAN virtual local area network, STP/RSTP network redundancy, SNMP network management protocol, IGMP multicast packet detection management, QoS, ACL and other advanced Layer 2 switch functions, and also provides various network management methods such as WEB/Telnet/Console/CLI. The products are designed with industrial-grade devices and housings to ensure long-term stability, reliability and safety in harsh environments. They are trusted and respected by users in industries such as transportation, electric power, telecommunication, public security, petroleum and petrochemical, banking, coal, water conservancy, railroad, metallurgy, military and civil aviation.

Technical Specification

Ethernet characteristics

Forwarding frame length: 9K bytes maximum
 MAC address capacity: 8K
 Data cache: 4M
 Number of VLANs: 4K
 Switching latency: <10us
 VLAN mode: Access/Trunk/Hybrid
 QinQ: Support
 Bandwidth management: port speed limit inbound and outbound direction
 Speed limit granularity: 0-1G, Step 100Kbps
 Extended loopback: port-based: supported
 Link Aggregation/LACP: support load balancing, support port protection
 Spanning Tree Protocol: Support STP, RSTP, MSTP
 Industrial ring network: support ERPS, ring protection switching time <20ms
 QoS flow classification: support
 QoS priority trust: support
 QoS queue number: 8
 QoS queue scheduling: SP, WRR
 QoS flow policy: Support
 Storm suppression type: broadcast, multicast, unknown unicast
 Storm suppression based on global: Support
 ACL based on MAC: Support
 ACL based on IP: Support

ACL based on VLAN: Support

Number of ACL entries: 256
 OAM: 802.3 ah; Support
 802.1ag; supported

Management and maintenance features

Command line management: Console, Telnet
 SNMP network management: Support
 WEB management: Support
 System upgrade: support Xmodem / TFTP upgrade under BOOTROM; support upload and upgrade of system files and configuration files
 User management: user classification and password protection
 System maintenance: fiber break alarm, power failure alarm, optical module diagnosis, ping, port statistics

Interfaces

Console Ports: 1 RS-232(M12)
 Electrical Ports: 8 10/100/1000Base-T (M12)

Panel Indicators

Power LED: PWR
 Interface LED: P1-8(Link&ACT)

Physical characteristics

Enclosure: Metal, fanless
 Protection class: IP67
 Size: 155mm x 120mm x 73mm (W x D x H)
 Weight: 0.9kg
 Mounting method: Panel mount

Mechanical standard

IEC60068-2-6 (Vibration)
 IEC60068-2-27 (Shock)
 IEC60068-2-32 (Free fall)

Certification

CE, FCC, RoHS

MTBF

360,000 hours

Warranty Period

3 years

Environmental Conditions

Operating temperature: -40 to 85°C
 Storage temperature: -40 to 85°C
 Ambient relative humidity: 5 to 95% (non-condensing)

Industrial Standards

EMI:
 FCC CFR47 Part 15, EN55022/CISPR22, Class A
 EMS:
 IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)
 IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)
 IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV
 IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV
 IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)
 IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

Standard

IEEE 802.3 10Base-T
 IEEE 802.3u 100Base-TX
 IEEE 802.3ab 1000BASE-T

Power

Power Terminal: M12
 Full load power consumption: < 8W
 Overload Protection: Support
 Reverse Connection Protection: Support
 Redundancy Protection: Support

Mechanical Drawing

