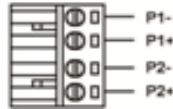| Product Model	LGS2000-F-16GE4GF-M

Product Image

Product Overview

LGS2000-F-16GE4GF-M is an industrial managed Gigabit Ethernet switch of Leagrid, providing 16 Gigabit Ethernet ports and 4 Gigabit optical ports. It has complete Ethernet switching performance and exceptional Layer 2 network functions, including VLAN , STP/RSTP , SNMP, IGMP , QoS, ACL and other advanced Layer 2 switch functions, while providing WEB/ Telnet/Console/CLI and other network management as well . The product adopts industrial-grade devices and shell to ensure long-term stable, reliable and safe use in harsh environments. It is deeply trusted and respected by users in transportation, electricity, telecommunications, public security, petroleum and petrochemicals, banking, coal, water conservancy, railways, metallurgy, military, civil aviation and other industrial applications.

Technical Specification

Ethernet
Store and forward,L2 wire-speed/non-blocking switching engine
Standard
IEEE 802.3 10Base-T ， IEEE 802.3u 100Base-Tx
IEEE 802.3ab 1000Base-T， IEEE 802.3z 1000Base-X
IEEE802.1D STP,IEEE802.1W RSTP ， IEEE 802.1s MSTP
IEEE802.3X(Full Duplex)and Back-Pressure(Half Duplex)
IEEE802.1Q tag-based VLANs， IEEE802.1ad Double Tagging(Q in Q)
Switch Properties
MAC Table: 8K
MAX VLANs: 4K
Packet Forwarding Rate:4Mpps
Switching Delay: <5us
Interface
Fiber Ports: 4 1000Base-X (SFP)
RJ45 Ports: 16 10/100/1000 Base-Tx RJ45 ports
Multicast protocols
IGMP V1 / V2 / V3
IGMP snooping and querying
Immediate leave and leave proxy
Throttling and filtering
IEEE802.1ab Link layer Discovery Protocol9(LLDP)

Traffic management &Qos
IEEE802.1P Qos
Number of queues per port 8
SPQ,WRR,SPQ+WRR
port-based shaping
Security
IP and MAC-based access control
IEEE802.1X Authentication Network Access Control
Multicast/Broadcast/Flooding Storm Control
Management
Cisco-like CLI （command line interface）
WEB-based Management
SNMP v1，v2 and v3
Telnet,HTTPs，SSH
Web for Configuration Import/Export，
Web for Firmware Upgrade
Syslog
Per VLAN mirroring
Ethernet Copper connection diagnostic tool SFP with DDM
MIBS,Client，Server，Relay，Snooping
Support NTP/SNTP
Device info/status;Ethernet port status

Physical Characteristics
Housing: Metal, fanless
Protection Class: IP40
Dimensions : 63.5mmx157mmx110mm(W×H×D)
Weight: 0.9kg
Mounting: DIN-Rail or Panel mounting
Power
Redundant Input Terminals
12-36VDC
Reverse power protcetion
Indicators
Power Status indication   pIndication of power input status
Ethernet port indication   Link&Speed
Industry Standard
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)

Machinery:
IEC60068-2-6 (Vibration)
IEC60068-2-27 (Shock)
IEC60068-2-32 (Free Fall)

Approvals
CE, FCC, RoHS

Quality Assurance

MTBF: 360,000 hrs

Warranty: 3 years

Environmental Limits
Operating Temperature: -40 to 85°C
Storage Temperature: -40 to 85°C
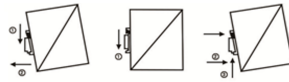Ambient Relative Humidity: 5 to 95% (non-condensing)

Power Access

4pin 5.08mm terminals
Power Input：12V-36VDC
P1&P2 dual redundant power supplies,
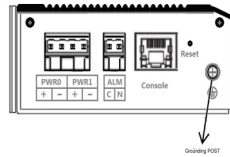Support reverse connection protection function

Installation

DIN-rail mounting

Panel mounting

Ground protection

Machanical Drawing