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: 256
Packet Forwarding Rate:4Mpps
Switching Delay: <5us

Interface
Fiber Ports: 4 1000Base-X (SFP ）
RJ45 Ports: 16 10/100/1000 Base-Tx RJ45 ports

Management
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
44.5mmx199mmx120mm(W×H×D)
Weight: 1.4kg
Mounting : DIN-Rail or Panel mounting

Power
Redundant Input Terminals
12-48VDC
Reverse power protcetion
Indicators
Power Status indication   Indication 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
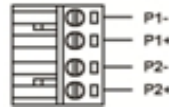CE, FCC, RoHS

Quality Assurance

MTBF: 360,000 hrs

Warranty: 3 years

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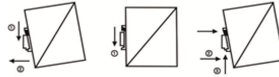Ambient Relative Humidity: 5 to 95% (non-condensing)

Installation

Power Access

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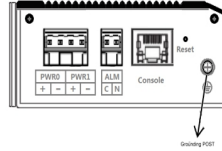Support reverse connection protection function

DIN-rail mounting

Panel mounting

Ground protection

Machanical Drawing