

Product Model

LGS2000-F-16PFE4FE4GE-M12-M

Product Image



Product Overview

LGS2000-F-16PFE4FE4GE-M12-M is an industrial-grade Layer 2 managed Gigabit Ethernet switch designed for rail transit. It has complete Layer 2 network functions, such as 802.1Q VLAN, STP/RSTP, QoS function, DHCP Server/Client, IGMP, static multicast, port aggregation, port mirroring, etc. It also provides various network management methods such as WEB/Telnet/Console/CLI. The product supports trunk network fault bypass function (i.e. BYPASS function) to avoid the communication interruption of downstream nodes caused by the failure of intermediate nodes in the line network. The product adopts industrial-grade devices and housing design, and provides M12 interface to ensure long-term stable, reliable and safe use in harsh environments.

Technical Specification

<p>Standards IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000BASE-T</p> <p>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</p>	<p>ACL based on VLAN: Support Number of ACL entries: 256 OAM: 802.3 ah: Support 802.1 ag: supported</p> <p>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</p> <p>Interface 100 Gigabit M12: 1-20 ports, 10/100Base-Tx, M12 (Female, 4-pin, D-Coded), 1-16 ports support POE Gigabit M12: 21-24 ports, 10/100/1000Base-T, M12 (Female, 8-pin X-Coded), 21 and 13 ports are a set of bypass ports, 22 and 24 ports are a set of bypass ports Console port: RJ45</p> <p>PoE Function IEEE 802.3.af : Supported 15.4W/port IEEE 802.3.at: Supported 30W/port</p>	<p>Power Single power supply, standard input voltage: 72/110VDC. Input voltage range: 66-160V Power consumption: < 150W (POE) Protection: Dual power supply redundancy protection, overvoltage protection, overcurrent protection, short-circuit protection, anti-reverse connection protection</p> <p>Physical Characteristics Housing: Metal, fanless Protection Class: IP40 Dimensions: 430mm x 88mm x 230mm(WxDxH) Weight: 5.2kg Mounting: Panel mounting</p> <p>Mechanical standard Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall)</p> <p>Certification CE, FCC, RoHS</p>	<p>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)</p> <p>Environmental Conditions Operating Temperature: -40 to 75°C Storage Temperature: -40 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing)</p> <p>MTBF 360,000 hrs</p> <p>Warranty 3 years</p>
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Mechanical Drawing

