

Product Model LGS2000-F-4GE2GX-I

Product Image



Product Overview

LGS2000-F-4GE2GX-I is one of Leagrid green low power optical transceiver series which can be deployed in many industrial scenarios including but not limited to smart city, wind power, grid distribution, oil & gas networking and many other industrial applications. It supports 4 x 10/100Mbase-TX copper ports and 2 x 100Base-FX pluggable fiber port. The maximum power consumption is lower than 2W, IP40 design and EMC level 4 can effectively resist the interference of static, lightning and pulses, strong vibration-resistant mounting clip for DIN-Rail installation, operating temperature range from -40°C to 85°C.

Technical Specification

**Standard**  
IEEE 802.3i 10Base-T  
IEEE 802.3u 100Base-Tx 100Base-Fx

**Switch Properties**  
MAC Table: 1K  
Packet Buffer: 448K  
Packet Forwarding Rate: 0.744Mpps  
Switching Delay: <5us

**Interface**  
Fiber Ports: 1 100Base-Fx (FC/SC/ST optional)  
RJ45 Ports: 4 10/100Base-Tx RJ45 ports

**LED**  
Power LED: PWR  
Interface LED: RJ45 (Link&ACT)  
Fiber: F (Link&ACT)

**Power Requirements**  
Power Terminal: 5-pin 3.81mm-spacing plug-terminal block  
Full load power consumption: 4port RJ-45+1 port Fiber < 2W

Overload Protection: Support  
Reverse Connection Protection: Support  
Redundancy Protection: Support

**Physical Characteristics**  
Housing: Metal, fanless  
Protection Class: IP40  
Dimensions: 30mmx115mmx92mm(W×H×D)  
Weight: 0.45kg  
Mounting: DIN-Rail or Panel mounting

**Industry Standard**  
EMC:  
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

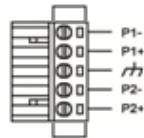
Quality Assurance

MTBF: 360,000 hrs

Warranty: 3 years

**Environmental Limits**  
Operating Temperature: -40 to 85°C  
Storage Temperature: -45 to 85°C  
Ambient Relative Humidity: 5 to 95% (non-condensing)

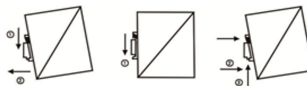
Power Access



5pin 3.81mm terminals  
Power Input: 12V-36VDC  
P1&P2 dual redundant power supplies,  
Support reverse connection protection function

Installation

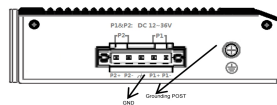
DIN-rail mounting



Panel mounting



Ground protection



Machanical Drawing

