

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: 2 1000Base-Fx (FC/SC/ST optional)
RJ45 Ports: 4 10/100/1000Base-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-interterminal 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 : 30mmx115mmx90mm(W×H×D)
Weight: 0.45kg
Mounting: DIN-Rail or Panel mounting

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

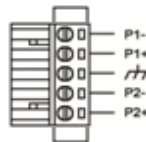
Warranty: 3 years

Environmental Limits

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

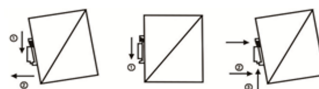
Installation

Power Access



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

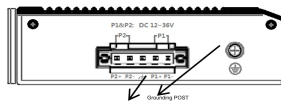
DIN-rail mounting



Panel mounting



Ground protection



Machanical Drawing

