

Product Model LGS2000-GCKK-24GE4GF-M

Product Image



Product Overview

Meet the new enterprise standard of "four unification" of intelligent substation switch. Provide 24 gigabit adaptive power ports, 4 gigabit/10 gigabit SFP optical ports, 1 console debug port. Adopt natural heat dissipation, -40~85℃ wide temperature design, IP40 protection level. Equipped with independent redundant power input to adapt to 220AC working voltage range, support IEC 61850 model and file service, support substation SNTP clock synchronization protocol, meet the power network security monitoring specifications, meet the national network class A standard

Technical Specification

Switching Features

Domestic three-layer switch chip
Switching chip with built-in CPU
Support substation SNTP clock synchronization protocol
Support CSD offline configuration
Support default modification of power messages (GOOSE, GSE, SV) priority
Support CLI, WEB, SNMPv1/v2c/v3, OPC, TELNET and LLDP for different levels of network management
Support traffic control threshold setting for SV & GOOSE messages
Support IEC 61850 model and file service
Support traffic control threshold setting for SV&GOOSE messages
Support flow control threshold setting for SV&GOOSE messages
Support two hard contact outputs for device failure and device alarm

Switching capacity: 72GB
MAC Table: 64K
Packet Buffer: 2M
Jumbo frame length: 9KB
L3 host table number: 32K
Number of L3 forwarding tables (LPM): 32K
L2 multicast routing table: 6K
L3 multicast routing table: 4K
Number of VLANs: 4K

Three-layer features

Support ARP/ICMP/DHCP protocol hardware pre-processing
Support IPv4/IPv6 host routing LPM routing
Support Strict URPF checking
Support ECMP for load balancing algorithm
Support PBR VRRP VRF

Security Features

Supports 802.1X based on Port and MAC
Support port isolation
Support IP/MAC/port/VLAN combination binding

Standard

IEEE 1588V2
IEEE 802.3
IEEE 802.3u
IEEE 802.3ab
IEEE 802.3x
IEEE 802.1d
IEEE 802.1w
IEEE 802.1p
IEEE 802.1q
Store-and-forward processing method.
IEC61000-4-2(ESD) ±8KV contact discharge, ±15KV space discharge
IEC61000-4-3(RS):10V/m(80~1000MHZ)
IEC61000-4-4(EFT) Power line: ±4KV data line:±2KV
IEC61000-4-5(Surge) Power cord: ±4KV/CM±2KV/DM.Data cord:±2KV
IEC61000-4-6 (RF conductivity): 3V (10KHZ~150KHZ), 10V (150KHZ~80MHZ)
IEC61000-4-8(Industrial frequency magnetic field): 100A/m(cont),1000A/m,(1s to 3s)
IEC61000-12/18(Shock wave): 2.5kV/CM, 1kv/DM
IEC61000-4-10(Damped shock): 30A/m
IEC61000-4-16(Common mode conduction): 30V(cont)300V,(1s)
FCC CFR47 PART 15:EN55022:Class A/B
IECC61000-6-2 (General Industry Standard), IEC61850-3 (Substation), IEEE 1813 (Power Substation)

Power Supply

Input voltage 220AC/DC(85-264VAC/77-300VDC);24-48VDC(18-72VDC)
Access terminal 5 core 5.08 pitch plug-in terminal
Power <40W
Overload protection Support; Reverse connection protection Support; Redundancy protection Support

Structure

Housing Metal material
Heat dissipation method Natural cooling, no fan
Protection class IP40
Dimensions 443mm×44mm×266mm(W×H×D)
Weight <4.5kg
Installation method 19 inch 1U rack mount

Environment

Operating temperature -40℃~+75℃
Storage temperature -40℃~+85℃
Relative humidity 5-95% non-condensing

Certification

CE, FCC, RoHS

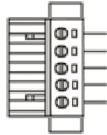
Quality Assurance

MTBF: 360,000 hrs
Warranty: 5 years

Mechanical Standards

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

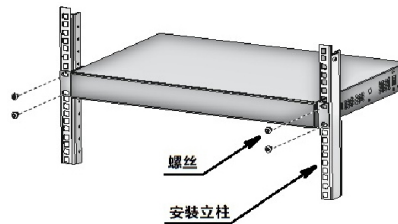
Power Access



5pin 5.08mm terminals
Power Input: 220VAC
P1&P2 Dual redundant power supplies

Installation

Wall mounting



Ground protection



Mechanical Drawing

