IGU-1271 Version: 1

12-Port L3 Lite Managed Gigabit Industrial Switch, 4 x SFP, DIN-Rail, -40°C to 75°C

The LevelOne IGU-1271, a L3 Lite Managed Industrial Switch with 8 ports of Gigaibit RJ45 and 4 ports of Gigabit SFP. This switch is offering full suite of L2 management features, including advanced L3 features such as Static Route that delivers better cost performance and lower total cost of ownership in enterprise networks via fiber or copper connections.

Key Features

- Supports IPv4/IPv6 network operation
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)
- Support Operations, Administration, and Maintenance (OAM) mechanisms
- Ethernet Ring Protection Switching (ERPS) for Ethernet ring topologies with sub-50 ms failover capabilities
- -40°C to 75°C operating temperature range

Specifications

System Specifications

Standards & Protocols:
IEEE 802.3 10-BASE-T (Ethernet)
IEEE 802.3u 100-BASE-TX (Fast Ethernet)
IEEE 802.3ab 1000BASE-T (Gigabit Ethernet)
IEEE 802.1D MAC Bridges
IEEE802.1p priority tags
IEEE802.1Q VLAN
IEEE802.3ac
IEEE 802.1ab (LLDP)
IEEE802.3ad Link aggregation control protocol
IEEE802.1w Fast Spanning Treel
802.1d Standard Spanning Tree
IEEE 802.3ah OAM
IEEE 802.1ag CFM (ITU-T Y.1731 Performance monitoring)
IEEE802.1s l Multiple Spanning Tree (MSTP)
IEEE802.1X authentication
IEEE802.3az Energy Efficient Etherne

Memory:
RAM : 128 MB
Flash : 32 MB

Buffer Memory:
0.5 MB

Connectors and Cabling:
8 (10M/100M/1G) RJ45 ports, 4 GbE SFP ports and 1 RJ45 console port

Button/Knob:
Reset Button

Indicator:
Power, System, Alarm, Ring Master, Coupling, Port Status

Transmission Method:
Store-and-Forward

Power Input:
48VDC ~ 57VDC

Power Consumption:
Full loading : 239.20 W

Backplane (Gbps):
Switching Bandwidth: 24Gbps
Forwarding Performance : 17.856Mpps

MAC Address Table:
8k

Data Transfer Rate:
10/100/1000Mbps

Features

General:
Switch Management:
DHCP:Client, Relay, Option 66, Option 67, Option 82
Event/Error Log:Syslog, SMTP (RFC821)
Management Access Filtering:SNMP, Web, Telnet, SSH
SNMP (v1, v2c, v3)
RMON (1,2,3 & 9 Groups)
Software Upgrade
Configuration Export/Import
Port Mirroring
LLDP (IEEE802.1AB)
LLDP-MED (IEEE802.1AB)
CDP Aware
sFlow
IPv6 Management
NTP

Security:
ACLs:L2/L3/L4
ACLs:IPv6 Support
Port Security (MAC-based)
IP Source Guard
Storm Control
RADIUS Authentication 802.1x
TACACS+ Authentication
HTTPs and SSL (Secured Web)
BPDU Guard
STP Root Guard
DHCP Snooping
Loop Protection

Management:

Switch Management:
DHCP:Client, Relay, Option 66, Option 67, Option 82
Event/Error Log: Syslog, SMTP (RFC821)
Management Access Filtering: SNMP, Web, Telnet,SSH
SNMP (v1, v2c, v3)
RMON (1,2,3 & 9 Groups)
Software Upgrade
Configuration Export/Import
Port Mirroring
LLDP (IEEE802.1AB)
LLDP-MED (IEEE802.1AB)
CDP Aware
sFlow
IPv6 Management
NTP

L3:
Static Route
DHCP Server

Ease of Use:
Firmware and Configuration: Upgrade via HTTP

Performance

Packet Forwarding Rate:
17.856Mpps

Jumbo Frame (K):
9216 Bytes

Switching Capacity:
24Gbps

Environment

Power Saving:
IEEE 802.3az Energy Efficient Ethernet:
- Automatically turns power off on RJ-45 port when detecting link down or Idle of client
- Cable length detection: Adjusts the signal strength based on the cable length
- Reduces the power consumption for cables shorter

Temperature (°C):
Operating: -40°C ~ 75°C
Storage: -40°C ~ 85°C

Humidity (Non-condensing):
Storage: 10% ~ 90%
Operating: 10 ~ 90%

Installation:
DIN-RAIL

Physical Specifications

Dimensions (W x D x H mm):
62x 130x 135

Weight (g):
680g

Reliability

MTBF:
25'C: 476,206(hr)
75'C: 92,110(hr)

Approval and Compliance

EMI/EMS:
FCC,CE

Safety:
UL,CB

Others:
DMS

Order Information

IGU-1271

Package Contents

IGU-1271
Console Cable
Resource CD (User Manual, QIG)
Mounting Kit
Quick Installation Guide