IGP-1271 Version: 1

🔵 **Power supply unit is to be ordered separately.**

TURING 12-Port L3 Lite Managed Gigabit Industrial Switch, 8 PoE Outputs, 240W, 802.3at/af PoE, 4 x SFP, -40°C to 75°C

The LevelOne IGP-1271, a L3 Lite Managed PoE Industrial Switch with 8 ports of Gigaibit RJ45 PoE and 4 ports of Gigabit SFP. This switch is offering full suite of L2 management features, better PoE functionality with 240W PoE power budget and usability, 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

- 8 Gigabit PoE ports and 4 Gigabit SFP slots
- Total PoE power budget: 240W, up to 30W per port
- Supports IPv4/IPv6 network operation
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)
- Supports 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
- Redundant power inputs with Terminal Block

Specifications

System Specifications

Standards & Protocols:
IEEE 802.3u 100-BASE-TX (Fast Ethernet)
IEEE 802.3ab 1000BASE-T (Gigabit Ethernet)
IEEE 802.3x Full Duplex and flow control
IEEE 802.3z Gigabit Ethernet over Fiber-Optic
IEEE 802.3ah OAM
IEEE 802.3af Power over Ethernet
IEEE 802.3at Power over Ethernet Plus
IEEE 802.3az Energy Efficient Ethernet
IEEE 802.1ag CFM (ITU-T Y.1731 Performance monitoring)
IEEE 802.1s l Multiple Spanning Tree (MSTP)
IEEE 802.1X authentication
IEEE 802.1ab (LLDP)
IEEE 802.3ad Link aggregation control protocol
IEEE 802.1w Fast Spanning Treel
IEEE 802.1d Standard Spanning Tree
IEEE 802.1D MAC Bridges
IEEE 802.1p priority tags
IEEE 802.1Q VLAN

Memory:
RAM: 128 MB
Flash: 32 MB

Buffer Memory:
0.5 MB

Port:
8 (10M/100M/1G) RJ45 with 8 PoE+ (Support 802.3 at/af, and total up to 240W) 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
Redundant power input

Power Consumption:
Full loading :239.20 W

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

MAC Address Table:
8K

Data Rate:
10/100/1000Mbps

Features

General:
VLAN
Private VLAN
MAC-based VLAN
Protocol-based VLAN
IP Subnet-based VLAN
Voice VLAN
IEEE802.1q VLAN
ITU-T G.8031 Ethernet Linear Protection Switching (EPS)
ITU-T G.8032 Ethernet Ring Protection Switching (ERPS)
IEEE 1588v2 PTP
IEEE 802.3ah OAM
IEEE 802.1ag CFM (ITU-T Y.1731 Performance monitoring)
STP/RSTP/MSTP
IGMP Snooping(v1/v2/v3)
DHCP server/client
Aggregation
MVR
MAC Table
LLDP
ERPS
Mirroring
GVRP
UPnP
sFlow
UPnP
UDLD
QoS
R-Ring

Syslog
SNMP
SMTP
NTP
Config import/export

PoE:
Power Budget: Max. 240W
Power Output: Up to 30W per port
Protection: Circuit protection to prevent power interference between ports
Management: PoE status, PoE on/off scheduling, PoE power delay, PoE live checking, Per port power priority setting, PD classification identity
Pin Assignment: 1/2(+), 3/6(-)

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
PoE Management:Scheduling, Auto-Checking, Power Delay
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
DMS
Mobile Application for Monitoring, Management, and Alert Notifications (Android & iOS)

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

Heat Dissipation:
full loading(PoE on): 816.18 BTU/hr

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

Operating 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
EN55032
EN61000-4-2
EN61000-4-3
EN61000-4-4
EN61000-4-5
EN61000-4-6
IEC60068-2-32
IEC60068-2-27
IEC60068-2-6

Safety:
UL,CB

Environmental Test:
RoHS,IP30

Others:
ISO9001 and ISO14001 certified factory

Order Information

IGP-1271

Package Contents

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