DATASHEET

12-Port L3 Lite Managed Gigabit PoE Ind. Switch 8 PoE Outputs, 240W, 4x SFP



General data

• 8 Gigabit PoE ports and 4 Gigabit SFP slots
• Total PoE budget: 240W, up to 30W per port
• Supports IPv4/IPv6 network operation
• Minimizes power consumption through modern energy efficiency (IEEE-802.3az)
• Supports operations, administration and maintenance (OAM) mechanisms
• Ethernet ring protection circuit (ERPS) for Ethernet ring topologies with failover of less than 50ms
• Operating temperature range from -40°C to 75°C
• Redundant network inputs with connection block
• Integrated Device Management System (DMS) for management, diagnostics and monitoring of connected components and devices
• 6KV surge protection level on each UTP port

The LevelOne IGP-1271, an L3 Lite Managed PoE Industrial Switch with 8 Gigabit RJ45 PoE+ ports and 4 Gigabit SFP ports, offers comprehensive Layer2 management features, better PoE functionality and ease of use, as well as advanced Layer3 features such as Static Route. In conjunction with an appropriately sized power supply, up to 240W PoE budget is available for your devices. With an industrial-grade DIN rail mount for easy panel installation, its ability to be used in ring topologies, and an operating temperature range of -40°C to 75°C, this rugged switch is designed for installation in industrial environments where extreme operating temperatures lead to failure of standard devices and fail-safe network operation is required.

Port configuration
RJ45 console port: 1
Gigabit RJ45: 8
Gigabit SFP: 4
802.3af/at PoE: 8

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General
Color Grey

Features
L2 features:
- MAC based authentication
- 802.1v Protocol-based VLAN
- Private VLAN
- MAC-based VLAN
- Protocol-based VLAN
- IP Subnet-based VLAN
- Voice VLAN
- ITU-T G.8031 Ethernet Linear Protection Switching (EPS)
- ITU-T G.8032 Ethernet Ring Protection Switching (ERPS)
- STP/RSTP/MSTP
- IGMP Snooping(v1/v2/v3)
- DHCP server/client
- Aggregation
- MVR
- MAC Table
- LLDP
- ERPS
- Mirroring
- GVRP
- sFlow
- UPnP
- UDLD
- QoS
- R-Ring,recover time <20ms,supports upto 250 switches
- Syslog
- SNMP
- SMTP
- NTP
- Config import/export

L3 features:
- Static route
- DHCP servers

Miscellaneous
Grade industrial
Data rate Gigabit Ethernet
PoE Supported Yes
Manageable Yes

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Fanless Yes
Concurrent ports 12.00 ports
Series TURING series
PoE power budget 240.00 watts

Others
Approvals and Compliance
- CE
- UL
- CB
- FCC Part 15 Class B
- RoHS
- 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
- LVD with EN 62368-1

Operating humidity 10% RH ~ 95% RH
Operating temperature -40°C ~ 75°C
Storage humidity 10% RH ~ 90% RH
Storage temperature -40°C ~ 85°C
Scope of delivery IGP-1271,
mounting kit,
Console Cable,
Quick Installation Guide,
Resource CD (User Manual, QIG)
performance

Switching capacity 24Gbps
Physical Specifications

Product weight (kg) 0.7

System specifications
Energy consumption
- DC 48V input : 6.72 W (non-loading), 240 W (full loading)
- DC 52V input : 6.75 W (non-loading), 239.20 W (full loading)
- DC 57V input : 6.27 W (non-loading), 237.12 W (full loading)

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

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Standards
- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-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 Multiple Spanning Tree (MSTP)
- IEEE 802.1X authentication
- IEEE 802.1ab (LLDP)
- IEEE 802.3ad Link aggregation control protocol
- IEEE 802.1w Fast Spanning Tree
- IEEE 802.1d Standard Spanning Tree
- IEEE 802.1D MAC Bridges
- IEEE 802.1p priority tags
- IEEE 1588v2 PTP
- IEEE 802.3ah OAM
- IEEE 802.1ag CFM (ITU-T Y.1731 Performance monitoring)
- IEEE 802.1v Protocol-based VLAN
- IEEE 802.1Q tag-based VLAN - up to 256 VLANs and 1~4095 VLAN IDs

Power supply optional, terminal block
Pin assignment and polarity 1/2 (+), 3/6 (-)
Fastening DIN rail mount
Flash memory size 32 MB
RAM size 128 MB
MAC address table 8K
Indicator Power, System, Alarm, Ring Master, Coupling, Port Status
Micro switch Rapid Chain/Ring Master ON(1 OR 2)
Packet buffer 0.5 Mbits
Backplane (Gbit/s) Switching Bandwidth: 24 Gbps, Forwarding Performance: 17,856 Mpps

Technical properties	
Depth	130 mm
Ethernet	True
Fast Ethernet	True
Gigabit Ethernet	True
Height	135 mm
Manageable	True
Manufacturer	LevelOne

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Max. PoE per Port	30
Mounting method	DIN rail (top hat rail)
Number of ports 10/100/1000 Mbps RJ45	8
Number of ports 1000 Mbps Mini GBIC	4
Number of ports PoE	8
Power over Ethernet (PoE)	802.3 at (PoE+)
Width	62 mm

Available variants

ArtNr.	Bezeichnung	Unique
IGP-1271	12-Port L3 Lite Managed Gigabit PoE Ind. Switch 8 PoE Outputs, 240W, 4x SFP	Unique

Note on Intended Use

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product's suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.

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