



IGP-0871 Version: 1

## 8-Port L3 Lite Managed Gigabit PoE Industrial Switch, 2 x SFP, 4 PoE Outputs, 802.3at/af PoE, 120W, -40°C to 75°C

The LevelOne IGP-0871, a L3 Lite Managed PoE Industrial Switch with 6 ports of Gigabit RJ45 PoE and 2 ports of Gigabit SFP. This switch is offering full suite of L2 management features, better PoE functionality with 120W 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

- Supports IPv4/IPv6 network operation
- 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
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)

### 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)  
 IEEE802.3az Energy Efficient Etherne  
 IEEE 802.3af Power over Ethernet  
 IEEE 802.3at Power over Ethernet Plus

##### Memory:

RAM: 128 MB  
 Flash: 32 MB

##### Buffer Memory:

0.5 MB

##### Connectors and Cabling:

6 (10M/100M/1G) RJ45 with 4 PoE+ (Support 802.3 at/af, and total up to 120W) ports, 2 GbE SFP ports and RJ45 console port

**Button/Knob:**

Reset Button

**Indicator:**

System

**Transmission Method:**

Store-and-Forward

**Power Input:**

48VDC ~ 57VDC

Redundant power input

**Power Consumption:**

(Full loading)

-DC 48V Input : 122.4W

-DC 52V Input : 21.68W

-DC 57V Input : 20.27W

**Backplane (Gbps):**

Switching Bandwidth: 16 Gbps

Forwarding Performance : 11.904 Mpps

**MAC Address Table:**

8K

**Data Transfer 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

DHCP server/client

Aggregation

MVR

MAC Table

LLDP

ERPS

Mirroring

GVRP

UPnP

sFlow

UPnP

UDLD

QoS

R-Ring

Syslog

SNMP

SMTP

NTP

www.level1.com  
Config import/export

**PoE:**

Power Budget: Max. 120W

Power Output: Up to 30W per port

Protection: Circuit protection to prevent power interference between ports

Per port power priority setting, PD classification identity

Pin Assignment: 1/2(+), 3/6(-)

**Security:**

ACLs L2/L3/L4

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:**

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

**Performance****Packet Forwarding Rate:**

11.904 Mpps

**Jumbo Frame (K):**

9k



## Switching Capacity:

16 Gbps

## Environment

### Power Saving:

IEEE 802.3az Energy Efficient Ethernet standard for green Ethernet application

### 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?527,730 h

75°C?100,874 h

## Approval and Compliance

### EMI/EMS:

FCC,CE

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:

IP30

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## Order Information

IGP-0871

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## Package Contents

IGP-0871

Console Cable

Resource CD (User Manual, QIG)

Mounting Kit

Quick Installation Guide

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