



IES-0620 Version: 1

## 6-Port Gigabit PoE Industrial Switch, 802.3at PoE+, 4 PoE Outputs, 1 x SFP, 1 x SFP/RJ45 Combo, DIN-Rail, -40°C to 75°C, 126W

LevelOne IES-0620 Industry Ethernet Switch provides 4 PoE ports 10/100/1000Base plus 2 port Gigabit SFP to enable high speed network at mission-critical environment. With the industrial standard DIN-rain mount; this switch can be easily installed in the cabinet, plus the clearly visible status LEDs provide simple monitoring of port link activity. Moreover, the SFP slots support pluggable modules that enabling you to choose from a variety of transceivers. This switch is Power Sourcing Equipment (PSE), and it is fully complied with IEEE 802.3at PoE standard at maximum 30W power budget per port. It helps to save infrastructure wiring costs dramatically by eliminating electric wiring and less UPS needed. Also, it is compatible with IEEE802.3af standard PD devices.

### Key Features

- 4 10/100/1000Base-T PoE ports
- 1 Gigabit Combo + 1 Gigabit SFP(100/1G) slot
- PoE ports can support the IEEE 802.3at standard and power up 30W
- 1000 Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex,
- Auto-Negotiation, Auto-MDI/MDIX
- -40°C to 75°C (-40°F to 167°F) operating temperature range
- DIN-Rail mount installation
- Metal case design and compliant with IP30 standard
- Wide input power range 12 to 55VDC

### 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 802.3z 1000Base-X Gigabit Ethernet  
 IEEE802.3x Flow Control and Back Pressure  
 IEEE 802.3af Power over Ethernet (PoE)  
 IEEE 802.3at Power over Ethernet Plus (PoE+)

##### Buffer Memory:

1024KB

**Connectors and Cabling:**

4 x 10/100/1000Mbps PoE RJ45 port  
1 x Gigabit Combo (RJ45 / SFP)  
1 x 100/1000Base-X SFP Slot  
1 x Terminal Block

**Button/Knob:**

DIP1 On : Port 5 supports TX Copper  
DIP1 Off : Port 5 supports SFP (Default)  
DIP2 : Reserved

**Indicator:**

PW1 (Power 1) : Green / PW2 (Power 2) : Green / ERR (Fault) : Amber  
LNK (RJ45) : Green  
SPD : Amber (1000) / Green (100) / Off (10)  
SFP : Green (Link / Active)

**Transmission Method:**

Store-and-Forward

**Power Input:**

12-55(12/24/48)VDC Dual power input capable (Redundancy)

**Protection:**

Polarity Reversal  
Overload Current

**Power Output:**

Alarm Relay Output 1A @ 24VDC

**Power Consumption:**

6 watts (with no PoE PD attached)  
160 watts (with full PoE PD attached)

## Features

**PoE:**

Power Budget: Max. 126Watts at 24VDC and 48VDC power input  
At 75°C - Maximum total power 85W at 12VDC power input  
At 70°C - Maximum total power 95W at 12VDC power input  
PD classification identity  
PoE over current protection  
PoE circuit sorting protection  
PoE Power Output: Max. 15.4 watts (802.3af) or 36 watts (802.3at)  
Power Pin Assignment: 1/2(+), 3/6(-)

## Performance

**Backplane (Gbps):**

12Gbps

**MAC Address Table:**

1K

**Data Transfer Rate:**

10/100/1000Mbps

**Packet Forwarding Rate:**

1000Mbps port - 1,488,000pps  
100Mbps port - 148,000pps  
10Mbps port - 14,880pps

**Jumbo Frame (K):**

10 K

## Environment

### Temperature (°C):

Operating: - 40°C ~ 75°C

Storage: - 40°C ~ 85°C

### Humidity (Non-condensing):

Storage: 5% ~ 95%

Operating: 5% ~ 95%

### Deployment:

Desk, wall and chassis mounted

## Physical Specifications

### Dimensions (W x D x H mm):

40 x 105 x 38 mm

### Weight (g):

720 g

## Reliability

### MTBF:

5,510,304 hrs

## Approval and Compliance

### EMI/EMS:

FCC Part 15 Subpart B Class A

CE

VCCI

### Safety:

EN60950-1

### Environmental Test:

EN61000-4-2 (ESD) Level 3

EN61000-4-3 (RS) Level 3

EN61000-4-4 (EFT) Level 3

EN61000-4-5 (Surge) Level 3

EN61000-4-6 (CS) Level 3

EN61000-4-8 (Magnetic Field) Level 3

UL508 (Pending)

EN 50121-4 (Pending)

IEC 60068-2-27

IEC 60068-2-32

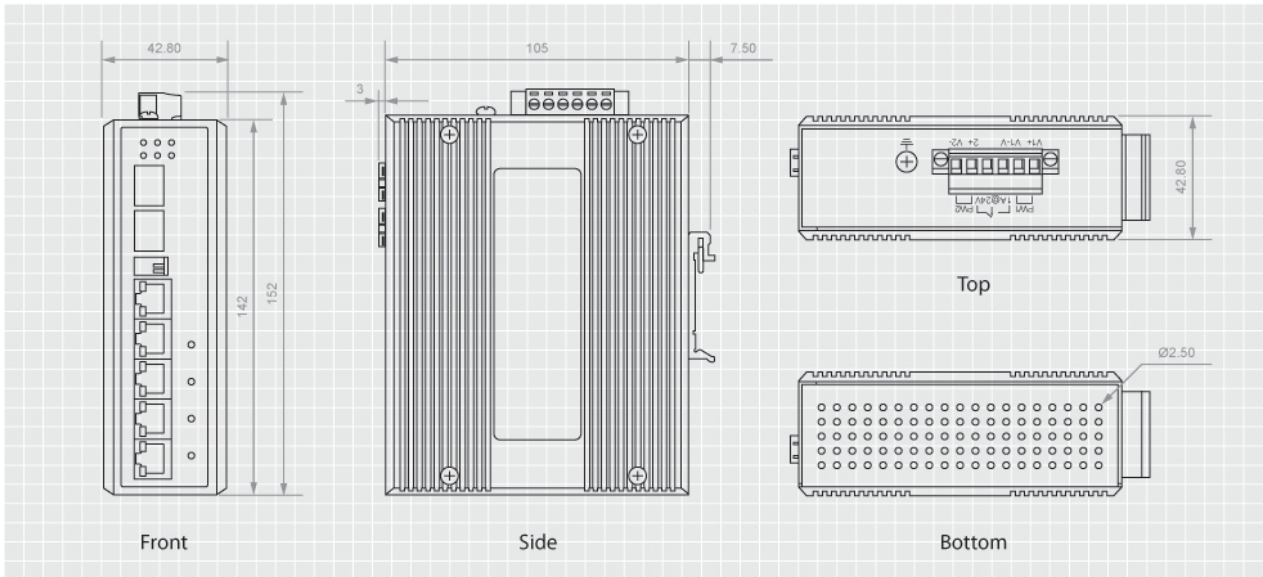
IEC 60068-2-6

UL 508



## Diagram

Unit: mm



## Order Information

IES-0620

## Package Contents

IES-0620

Quick Installation Guide

No liability or responsibility for any errors or omissions in the content.  
Specifications are subject to change without notice.  
All mentioned brand names are registered trademarks and property of their owners.  
Copyright © Digital Data Communications GmbH, Germany. All Rights Reserved.