



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, voltage booster

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 from 12 to 55 VDC

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)

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 65W at 12VDC power input

At 70°C - Maximum total power 36W at 12/24/48VDC 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(-)

Security:

Protection:

Polarity Reversal

Overload Current

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

