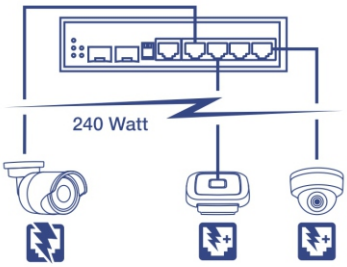
6-Port Hardened Industrial Gigabit PoE++ DIN-Rail Switch

TI-UPG62 (v2.1R)

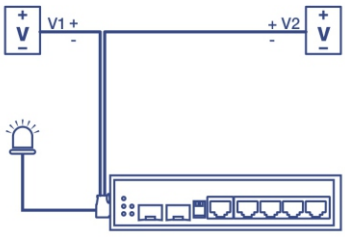
- 4 x Gigabit PoE++ ports
- 1x Gigabit share port
- 2 x Gigabit SFP slots
- 240W power budget
- 12Gbps switching capacity
- Hardened IP30 rated metal switch
- Includes DIN-rail and wall mounts
- Wide operating temperature range of -40° – 75° C (-40° – 167° F)
- Dual power inputs for redundancy
- Alarm output triggered by power failure
- Power supply sold separately (TI-S24048)

TRENDnet's TI-UPG62 is a reliable IP30 unmanaged DIN-Rail PoE++ switch with a rugged housing rated for extreme industrial environments. It offers 4 Gigabit PoE++ ports, a 240W PoE power budget, two dedicated SFP slots, and a 12 Gbps switching capacity. This hardened industrial switch features multiple redundant power inputs and a power failure alarm relay.



PoE++

A 240 watt PoE power budget supplies up to four Power over Ethernet devices with PoE (15.4W), PoE+ (30W), or PoE++ (90W) power.



Fault Tolerance

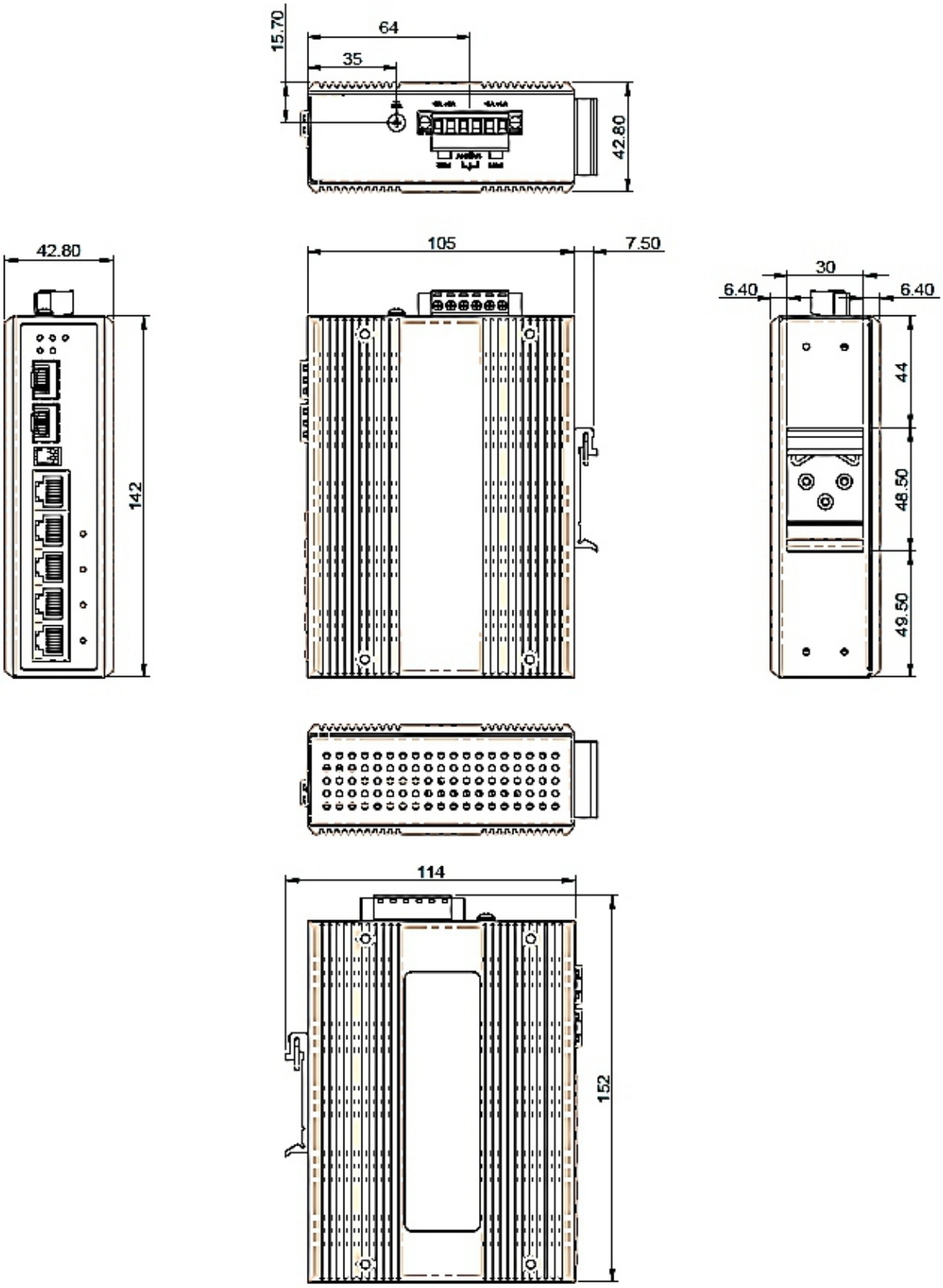
Features multiple redundant power inputs (Primary and RPS) from external power sources and an output alarm relay in the event of input power failure.

Industrial Hardened Design

Designed with a rugged IP30 rated enclosure, resistance to a high degree of vibration and shock, protection against ESD/EMI/surge, and a wide operating temperature range (- 40 – 75 °C (- 40 - 167 °F)).

NETWORKING SOLUTION

HOUSING DIMENSIONS (mm)



FEATURES

PoE Power Budget
A 240 watt PoE power budget supplies up to four Power over Ethernet devices with PoE (15.4W), PoE+ (30W), or PoE++ (90W) power.

Switching Capacity
12Gbps switching capacity

Jumbo Frame
Sends larger packets, or Jumbo Frames (up to 9KB), for increased performance

Certifications
Rated for information technology (ITE) equipment (EN55022/24); industrial, scientific, and medical (ISM) Equipment (EN55011)

Network Ports
4 x Gigabit PoE++ ports and 2 x dedicated SFP slots

Redundant Power
Dual power inputs for redundancy with overload current protection. (power supplies sold separately, model TI-S24048)

Rated for Extreme Environments
Rugged IP30 rated enclosure designed to withstand a high degree of vibration, shock, and operate within a wide temperature range (- 40 – 75 °C (- 40 - 167 °F)) for harsh environments

Shock and Vibration Resistant
Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-32), and vibration (IEC 60068-2-6)

DIN-Rail/Wall Mounts
IP30 rated metal enclosure with included DIN-rail and wall mount hardware

Alarm Relay
Alarm relay triggered by power failure of primary and/or redundant power

Electro Magnetic Compliance
Complies with FCC Part 15 Subpart B Class A and CE EN 55022 Class A standards

Grounding Point
Grounding point protects equipment from external electrical surges

SPECIFICATIONS

Standards
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3z
- IEEE 802.3x
- IEEE 802.3af
- IEEE 802.3at
- IEEE 802.3bt

Device Interface
- 4 x Gigabit PoE++ ports
- 1 x Gigabit share port
- 2 x Gigabit SFP slots
- 6-pin removable terminal block
- LED indicators
- DIN-Rail mount
- Wall mount
- Grounding point

Data Transfer Rate
- Ethernet: 10Mbps (half duplex), 20Mbps (full duplex)
- Fast Ethernet: 100Mbps (half duplex), 200Mbps (full duplex)
- Gigabit: 2000Mbps (full duplex)
- Fiber: 2000Mbps (full duplex)

Performance
- Data RAM Buffer: 128KB
- Switching Fabric: 12Gbps
- MAC Address Table: 1K entries
- Jumbo Frame: 9KB
- Forwarding rate: 8.9Mpps (64-byte packet size)

Special Features
- Hardened components rated for extreme temperatures
- Multiple power inputs
- Auto-Negotiation
- Auto store and forward architecture
- Automatic address learning and address aging

DC Power
- Input: 52 - 56V DC
- Compatible power supply: TI-S24048 (sold separately)
- Max. consumption: 6.2W (no PD)

PoE
- PoE: up to 15.4W per port
- PoE+: up to 30W per port
- PoE++: up to 90W per port
- Power budget: 240W

Terminal Block
- Redundant power inputs, alarm relay contact, 6 pin
- Wire range: 0.34mm^2 to 2.5mm^2
- Solid wire (AWG): 12-24/14-22
- Stranded wire (AWG): 12-24/14-22
- Torque: 5 lb. – In / 0.5Nm / 0.56 Nm
- Wire strip length: 7-8mm

DIP Switch
- 1: OFF (port 5 SFP on, default), ON (port 5 SFP off)
- 2: OFF (SFP 1000M, default), ON (SFP 100M)

Alarm Relay Contact
- Relay outputs with current carrying capacity of 1A, 24V DC
- Short circuit mode when two power sources are connected
- Open circuit mode when only one power source is connected

MTBF
- 510,304 hours

Housing

- IP30 metal case
- DIN-Rail mount
- Wall mount
- Grounding point
- ESD Protection: Contact: 6kV / Air: 8kV
- Surge Protection: 2kV

Operating Temperature

- Max. 95% non-condensing

Operating Humidity

- Max. 95% non-condensing

Dimensions

- 143 x 105 x 36mm (5.6 x 4.1 x 1.4 in.)

Weight

- 514g (1.1 lb)

Certifications

- CE
- FCC
- Shock (IEC 60068-2-27)
- Freefall (IEC 60068-2-32)
- Vibration (IEC 60068-2-6)
- IEC 61000-4-2
- IEC 61000-4-4
- IEC 61000-4-5

Warranty

- 3 year

Package Contents

- TI-UPG62
- Quick Installation Guide
- Removable terminal block
- DIN-Rail and wall mount kit

All references to speed are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

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Updated: 5/20/2020