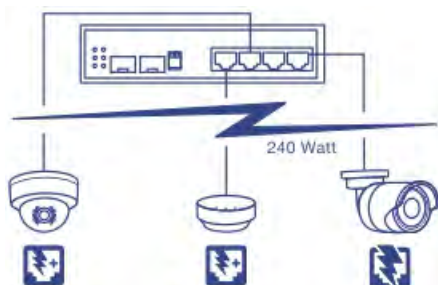# 6-Port Hardened Industrial Gigabit Ultra PoE DIN-Rail Switch
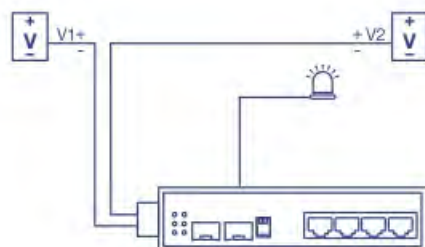
TI-UPG62 (v1.0R)

- 4 x Gigabit Ultra PoE ports
- 2 x dedicated SFP slots
- 240 watt power budget
- 12 Gbps switching capacity
- Hardened IP30 rated metal switch
- Includes DIN-rail and wall mounts
- Extreme -40 to 75 ºC (-40 to 167 ºF) operating temperature range
- Dual redundant power inputs with overload current protection
- Alarm output triggered by power failure
- Power supply sold separately (TI-S24048)

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

Ultra PoE

A 240 watt PoE power budget supplies up to four Power over Ethernet devices with PoE (15.4 W), PoE+ (30 W) or Ultra PoE (60 W) power.

Fault Tolerance

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

Industrial Hardened Design

Equipped with a rugged IP30 rated enclosure and designed to withstand a high degree of vibration, shock, protection against ESD / EMI / surge, and operate with a wide temperature range (- 40 – 75 °C (- 40 - 167 °F)) for harsh environments.

Networking Solution

1. Terminal slot for DC power
2. Grounding point
3. LED indicators
4. SFP slots
5. DIP switches
6. Gigabit Ultra PoE ports
7. IP30 rated metal housing
8. Din-rail mount
9. Screws
10. Wall mount kit
11. Terminal block

PoE Power Budget
A 240 watt PoE power budget supplies up to four Power over Ethernet devices with PoE (15.4 W), PoE+ (30 W) or Ultra PoE (60 W) power.

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

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

Switching Capacity
12 Gbps switching capacity

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

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

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

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.

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

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

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

Grounding Point
Grounding point protects equipment from external electrical surges

TRENDnet

Specifications

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

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

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

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

Special Features
- Hardened components rated for extreme temperatures
- Dual redundant power inputs
- Auto-Negotiation

- Auto store and forward architecture
- Automatic address learning and address aging
- ESD 8KV protection

DC Power
- Input: 48 - 56 V DC
- Compatible power supply: TI-S24048 (sold separately)
- Consumption: Max. 5.76 watts (no PD)

PoE
- PoE: up to 15.4 watts per port
- PoE+
- Ultra PoE
- Total PoE budget

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

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
- 304 hours

Housing
- IP30 metal case
- DIN-rail mount
- Wall mount
- Grounding point
- 8 KV ESD protection

Operating Temperature
- - 40 to 75 °C (-40 to 167 °F)

Operating Humidity
- Max. 95 % non-condensing

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

Weight
- 514 g (1.1 lb)

Certifications
- CE
- FCC
- Shock
- Freefall
- Vibration (IEC 60068-2-6)

Warranty
- Limited Lifetime Warranty*

Package Contents
- TI-UPG62
- Quick Installation Guide
- Removable terminal block
- DIN-rail and wall mount kit