



## 5-Port Industrial EN50155 M12 Gigabit PoE+ Railway Switch

TI-XPG50 (v1.0R)

- 4 x M12 (X-code) Gigabit PoE+ ports
- 1 x M12 (X-code) Gigabit port
- 1 x M12 (A-code) power port
- PoE power budget: 120W@56V DC
- EN50155 compliant for rolling stock and railway applications
- Hardened IP67 outdoor rated metal housing
- 10Gbps switching capacity
- Operating temperature range of -40° – 75° C (-40° – 167° F)
- Includes DIN-Rail and wall mount kits
- M12 cables sold separately (models: TI-CD02, TI-CD05, TI-CP02)
- Power supply sold separately (models: TI-S15052)

TRENDnet's 5-Port Industrial EN50155 M12 Gigabit PoE+ Railway Switch, model TI-XPG50, has four M12 gigabit PoE+ ports and one M12 gigabit port with a total PoE budget of up to 120W. This M12 Ethernet switch is equipped with an IP67 outdoor rated metal enclosure, designed to withstand a high degree of vibration and shock, while operating within a wide temperature range of -40° – 75° C (-40° – 167° F) for industrial EN50155 applications. The M12 Ethernet switch is designed and tested for mobile bus, train, other transportation and telecom applications.



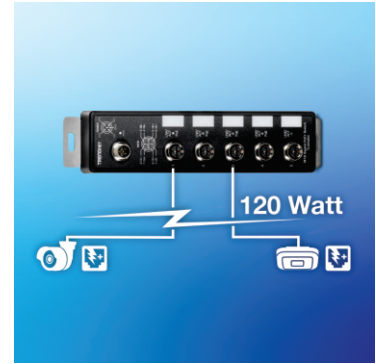
### EN50155 Compliant

This M12 Ethernet switch supports an input voltage range from 48 – 56V DC, with M12 interfaces for moving bus, train, and other rolling stock applications.



### Industrial Design

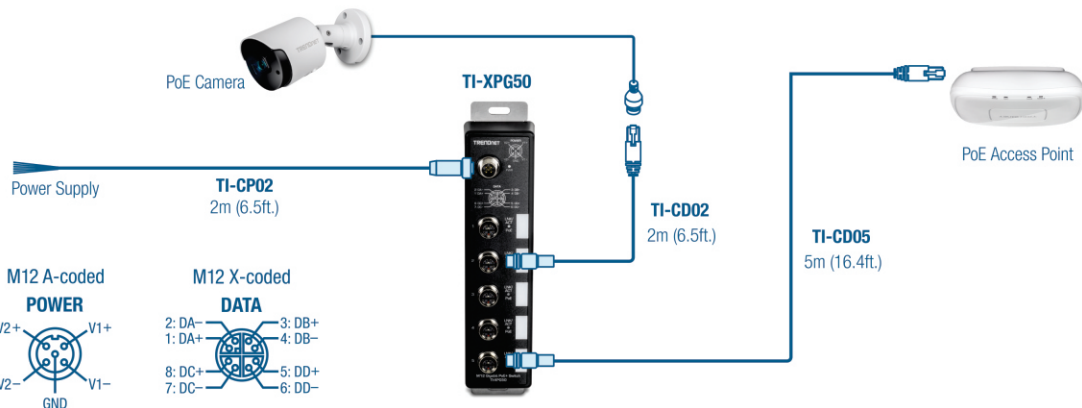
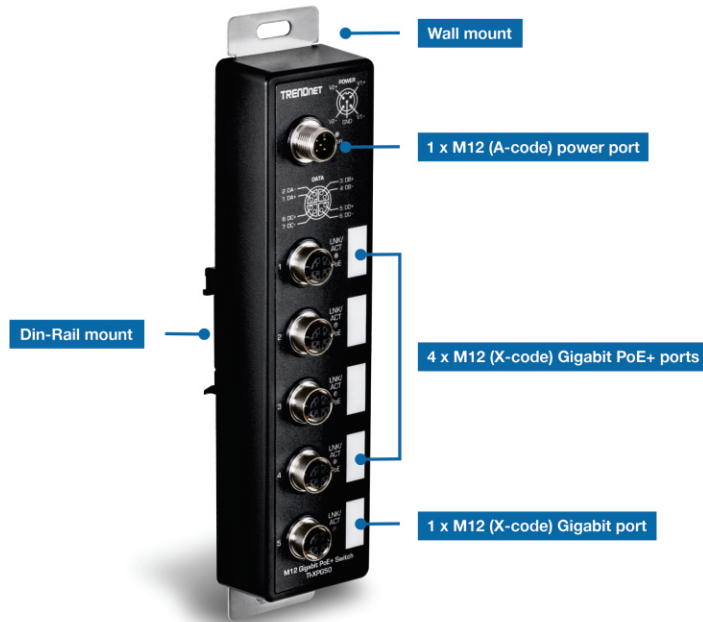
Equipped with an IP67 rated metal enclosure, the M12 switch is designed to withstand vibration and shock, with a wide operating temperature range of -40° – 75° C (-40° – 167° F).



### Power over Ethernet (PoE+)

Four M12 gigabit PoE+ ports deliver up to 30W of PoE+ power per port with a total power budget of 120W@56V DC.

## NETWORKING SOLUTION



## FEATURES



### Power over Ethernet (PoE+)

Four M12 gigabit PoE+ ports on this M12 PoE switch deliver up to 30W of PoE+ power per port with a total power budget of 120W@56V DC



### Switching Capacity

10Gbps switching capacity



### Jumbo Frame

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



### EN50155 Compliance

This industrial EN50155 Ethernet switch is certified for rail (EN 50155 / EN 50121-3) and (EN 50155 / EN 50121-4)



### Shock and Vibration Resistant

Rated for a high-degree of shock (EN 60068-2-27), freefall (EN 60068-2-32), and vibration (EN 60068-2-6)



### Wall Mount

Wall mounting brackets included for the industrial M12 Ethernet switch



### IP67 Rated

Metal enclosure with an IP67 outdoor weather rating



### Wide Temperature Range

A wide operating temperature range of -40° – 75° C (-40° – 167° F) allows for installations in extreme hot or cold environments



### Power

Supports an input voltage range from 48 – 56V DC with M12 interfaces for moving bus, train, and other rolling stock applications



### Grounding Point

Grounding point protects the M12 Ethernet switch from external electrical surges

## SPECIFICATIONS

### Standards

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

### Device Interface

- 4 x M12 (X-code) Gigabit PoE+ ports
- 1 x M12 (X-code) Gigabit port
- 1 x M12 (A-code) power port
- LED indicators
- Wall mount
- Din-Rail 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)

### Performance

- Data RAM Buffer: 1MB
- Switching Fabric: 10Gbps
- MAC Address Table: 2K entries
- Jumbo Frame: 9KB
- Forwarding rate: 7.44Mpps (64-byte packet size)

### Special Features

- Hardened components rated for extreme temperatures
- Auto-Negotiation
- Auto store and forward architecture
- Automatic address learning and address aging
- 6kV ESD protection

### DC Power

- Input: 48 – 56V DC
- Max. consumption: 5W (without PoE)
- Optional power supply: TI-S15052 (with surge protector)

### PoE Budget

- 120W @ 56V DC

### MTBF

- 546,613 hours

### Housing

- IP67 metal housing
- Wall mount
- Grounding point
- 6kV ESD protection

### Operating Temperature

- -40° – 75° C (-40° – 167° F)

### Operating Humidity

- Max. 95% non-condensing

### Dimensions

- 220 x 50 x 28mm (8.7 x 2 x 1.1 in.)

### Weight

- 368g (13 oz.)

### Certifications

- CE
- FCC
- IEC EN 60950-1
- Shock EN 60068-2-27
- Freefall EN 60068-2-32
- Vibration EN 60068-2-6
- RailRoad EN 50155 / EN 50121-3
- RailRoad EN 50155 / EN 50121-4

### Warranty

- 3 years

### Package Contents

- TI-XPG50
- Quick Installation Guide
- Wall mount and DIN-Rail 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.