# 16-Port Industrial Gigabit DIN-Rail Switch

TI-G162 (v1.0R)

- 14 x Gigabit ports
- 2 x Gigabit SFP slots
- 32Gbps switching capacity
- Hardened IP30 rated metal switch
- Includes DIN-Rail mount and wall mount brackets
- Wide operating temperature range of -40° – 75°C (-40° – 167°F)
- Multiple power inputs provide redundant power with overload current protection
- Alarm output triggered by power failure
- Power supply sold separately (model: TI-M6024)

TRENDnet's Industrial Gigabit DIN-Rail Switches are reliable and rugged networking solutions that are designed for use in both extreme and demanding environments. Each Industrial Gigabit DIN-Rail Switch features a rugged IP30 rated metal enclosure, designed to withstand a high degree of vibration and shock, while operating in both high and low temperatures for industrial environments within -40° – 75° C (-40° – 167° F). Our hardened industrial switch models feature copper Gigabit ports for high-speed device connections, and Gigabit SFP slots that supports 1000Base-FX modules for long distance fiber networking applications.
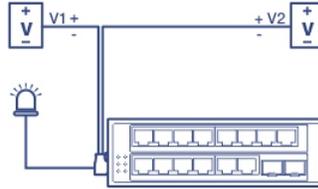
Gigabit Ports
This Industrial switch features copper Gigabit ports for high-speed device connections, and Gigabit SFP slots that support 1000Base-FX modules for long distance fiber networking applications.

Redundant Power
Multiple power inputs provide redundant power with overload current protection on this hardened industrial switch, minimizing overall network downtime (power supplies sold separately).

Industrial Hardened Design
Equipped with a rugged IP30 rated housing, designed to withstand a high degree of vibration, shock, and operate within a wide temperature range of -40° – 75° C (-40° – 167° F).

NETWORKING SOLUTION

TI-G162

PLC

SCADA HOST

LED indicators

14 x Gigabit ports

2 x Gigabit SFP slots

Grounding point

6-pin removable terminal block

Wall mount

DIN-Rail mount

TRENDnet®
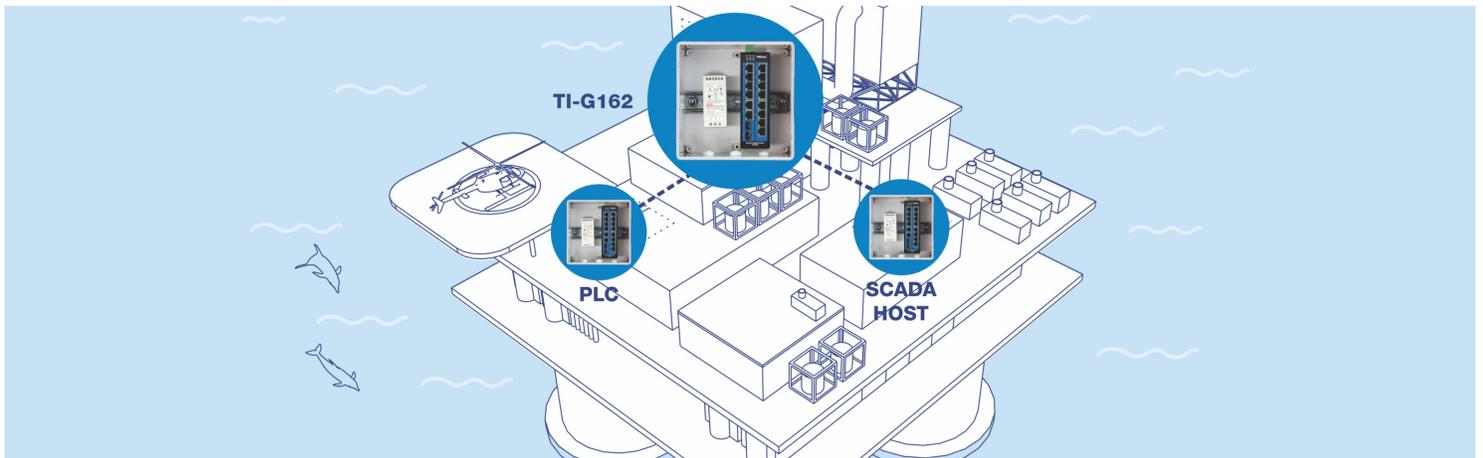
NETWORKING SOLUTION (mm)

TRENDnet®
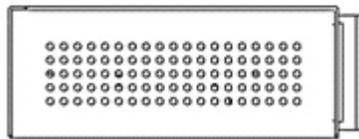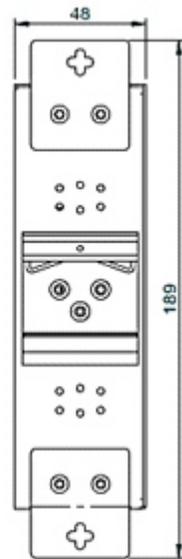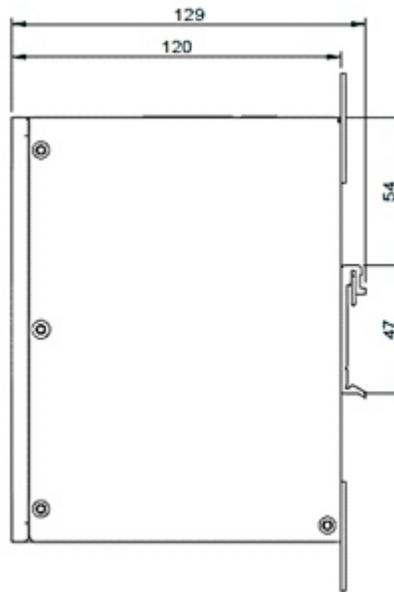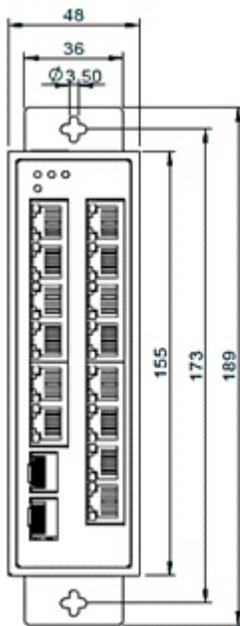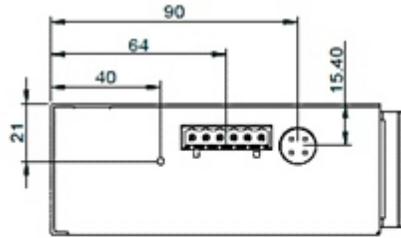
FEATURES

Gigabit Ports
Industrial switch features copper Gigabit ports for high-speed device connections, and Gigabit SFP slots that supports 1000Base-FX modules for long distance fiber networking applications

DIN-Rail / Wall Mounts
IP30 rated metal enclosure on the industrial switch with included DIN-Rail mount and wall mount hardware

Redundant Power
Multiple power inputs provide redundant power with overload current protection (power supply sold separately, model: TI-M6024)

Alarm Relay
Hardened industrial switches each with an alarm relay triggered by power failure of primary and/or redundant power

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

Wide Temperature Range
A wide operating temperature range of -40° – 75° C (-40° – 167° F) allows for the installations of the industrial switches in environments with extreme hot or cold conditions

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

Electro Magnetic Compliance
Complies with industrial EMS certifications (IEC 61000-4-2) ESD: Contact: 6kV | Air: 8kV, (IEC 61000-4-4) EFT: Power: 2kV | Signal: 2kV, (61000-4-5) Surge: Power: 2kV | Signal: 2kV

Grounding Point
Industrial switches feature a grounding point for protection against external electrical surges

SPECIFICATIONS

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

Device Interface
- 14 x Gigabit ports
- 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)
- SFP: 2000Mbps (full duplex)

Performance
- Data RAM Buffer: 512KB
- Switching Fabric: 32Gbps
- MAC Address Table: 8K entries
- Jumbo Frame: 9KB
- Forwarding rate: 23.8Mpps (64-byte packet size)

Special Features
- Hardened components rated for extreme temperatures
- Multiple power inputs
- ESD contact 6kV, air 8kV, and surge 2kV support
- Low-profile design

DC Power
- Input: 12 – 56V DC
- Recommended power supply: TI-M6024 (sold separately)
- Max. consumption: 13W

Optional Power Adapter (48VDC3000 sold separately)
- Input: 100 – 240V AC, 50/60Hz, 2A
- Output: 48V DC, 3.34A 160W max.

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 / 0.56Nm
- Wire strip length: 7-8mm

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

MTBF
- 514,167 hrs @ 50° C
- 188,310 hrs @ 75° C

Housing
- IP30 metal case
- DIN-Rail mount
- Wall mount
- Grounding point
- 6kV contact protection
- 8kV air protection
- 2kV surge protection

Operating Temperature
• - 40° – 75° C (-40° – 167° F)

Operating Humidity
• Max. 95% non-condensing

Dimensions (L x W x H)
• 155 x 120 x 48mm (6 x 4.7 x 1.9 in.)

Weight
• 536g (18.9 oz.)

Certifications
• CE
• FCC
• MET
• Shock (IEC 60068-2-27)
• Freefall (IEC 60068-2-32)
• Vibration (IEC 60068-2-6)

Warranty
• 3 year

Package Contents
• TI-G162
• Quick Installation Guide
• Removable terminal block
• DIN-rail and wall mount kit

TRENDnet offers a lifetime warranty for all of its metal-enclosed network switches that have been purchased in the United States/Canada on or after 1/1/2015. Cooling fan and internal power supply carry a one-year warranty.