TRENDnet®

Quick Installation Guide

TI-G642i / TI-G160i / TI-G102i (V1)

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1. Before You Start

Package Contents

- TI-G642i / TI-G160i / TI-G102i
- Quick Installation Guide
- Removable terminal block
- DIN-rail mount

Minimum Requirements

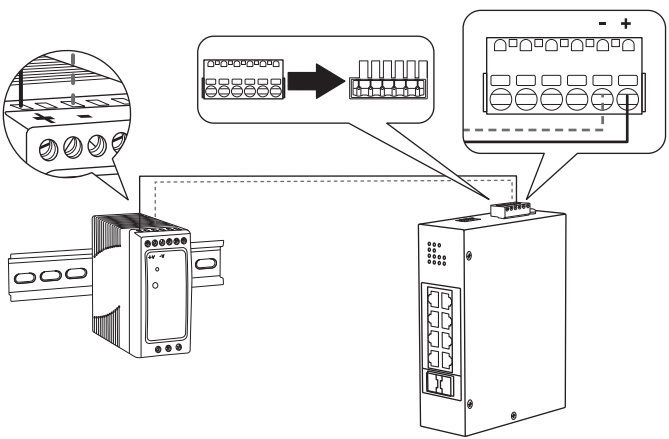
- Power supply [ex. model TI-M6024 (60W), TI-S12024 (120W), TI-S12048 (120W), TI-S24048 (240W)]
- Networked computer
- RJ-45 Network Cable

Optional Equipment

- 35 mm DIN-Rail

2. Quick Reference

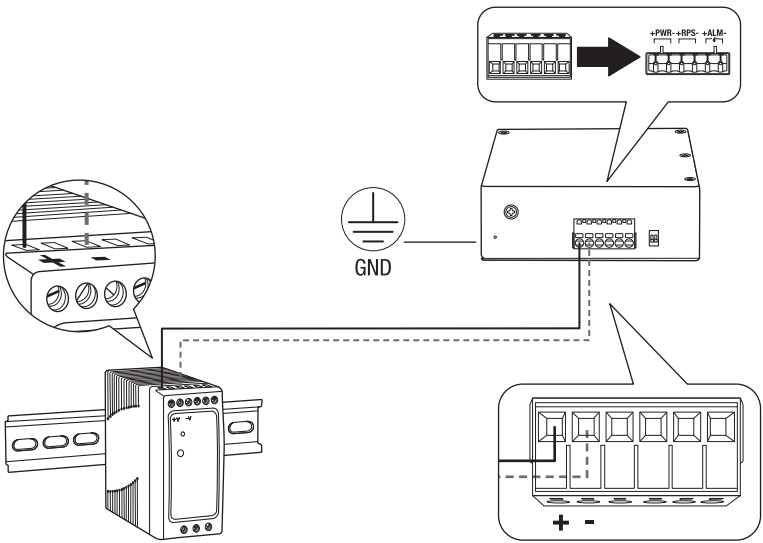
Note: The switch may be different than the one shown in the examples below.



Applying Power

1. Connect the power supply (sold separately) to the included terminal block (as shown below) and secure with the screws.
   Note: Polarities must match.
2. Attach the terminal block to the unit.

Optional: The switch chassis can also be connected to a known grounding point for additional safety and protection (grounding wire is not included)



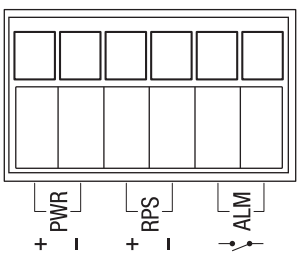
Safety Note

- Turn off the power before connecting any module or wire. The correct power supply voltage TI-G642i: 20-60VDC / TI-G160i: 12-60VDC / TI-G102i: 12-60VDC is listed on the product label. Check the voltage of your power source to make sure that you are using the correct part. Do NOT use voltage greater than
  TI-G642i: 20-60VDC / TI-G160i: 12-60VDC / TI-G102i: 12-60VDC, as specified on the product label.
- Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If the current surpasses the maximum ratings, the wiring could overheat, causing serious damage to your equipment.

Redundant power inputs

Terminal Block

TI-G642i: 20-60VDC / TI-G160i: 20-60VDC / TI-G102i: 12-60VDC



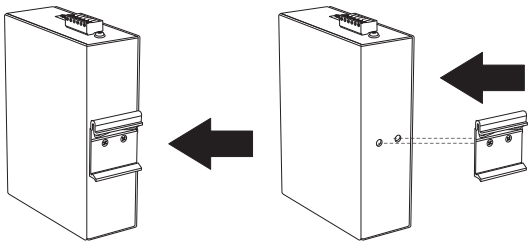
Redundant Power Input: “Terminal Block (PWR)” as primary power and “Terminal Block (RPS)” for secondary power source, to be a redundant power Input.

3. Hardware Installation

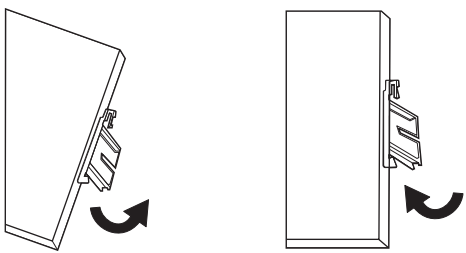
Note: The switch can be placed on a desktop, wall mounted, or mounted to a DIN-Rail.

DIN-Rail Mounting Instructions

1. Attach the DIN-Rail mount to switch.



2. Position the unit in front of the DIN-Rail and hook the mount bracket over the top of the rail.
3. Rotate the switch downward towards the rail to lock it into place. You will know it is secure when you hear the click.



Mounting the unit **Releasing the unit**

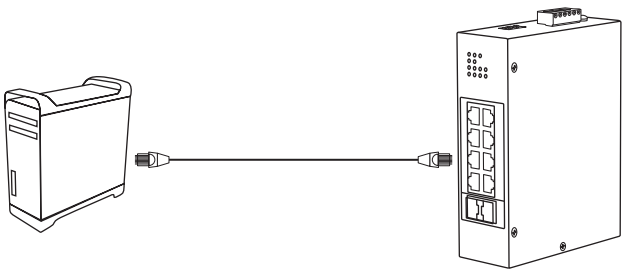
4. To remove the unit, pull down to clear the bottom of the DIN-Rail and rotate away from the rail.

4. Hardware Configuration

Note:

The switch may be different than the one shown in the examples below.

1



2. Assign a Static IP address to your computer's network adapter in the subnet of 192.168.10.x (e.g. 192.168.10.25) and a subnet mask of 255.255.255.0.

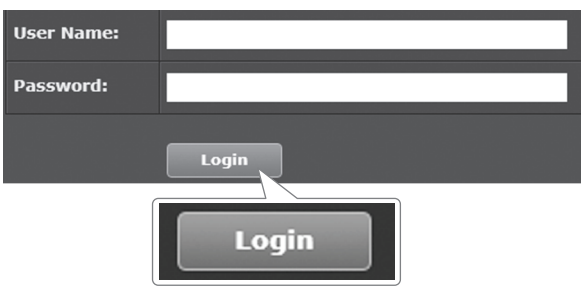
3. Open your web browser, type the IP address of the switch in the address bar, and then press **Enter**. The default IP address is 192.168.10.200

4. Enter the **User name** and **Password**, and then click **Login**. By default:

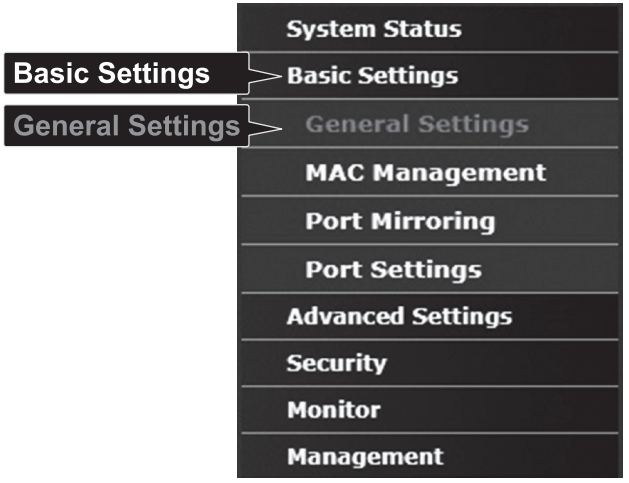
   User Name: **admin**

   Password: **admin**

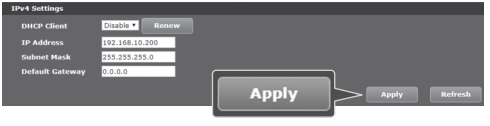
Note: User Name and Password are case sensitive.



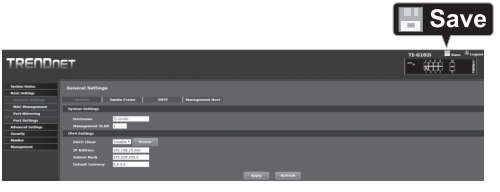
5. Click **Basic Settings** and then click **General Settings**.



6. Configure the switch to match the requirements of your network. Then click **Apply**.



7. Click **Save**.

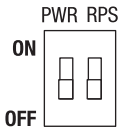


8. Connect a network source and devices to the switch. Check the LEDs to confirm the connections are established. Your installation is complete.

5. Additional Information

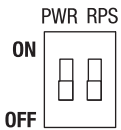
DIP Switch TI-G642i / TI-G160i / TI-G102i

TI-G642i



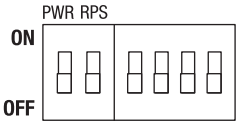
Switch	Status	Function
1	OFF	Disable alarm relay for PWR power input
	ON	Enable alarm relay for power failure on PWR power input
2	OFF	Disable alarm relay for RPS power input
	ON	Enable alarm relay for power failure on RPS power input

TI-G160i



Switch	Status	Function
1	OFF	Primary power alarm disabled
	ON	Primary power alarm enabled
2	OFF	Redundant power alarm disabled
	ON	Redundant power alarm enabled

TI-G102i



Switch	Status	Function
1	OFF	Disable alarm relay for PWR power input
	ON	Enable alarm relay for power failure on PWR power input
2	OFF	Disable alarm relay for RPS power input
	ON	Enable alarm relay for power failure on RPS power input
3	OFF	Storm control managed by switch configuration
	ON	Enable storm control (Broadcast and DLF rate set to 300pps) Takes precedence over storm control switch configuration
4	OFF	802.1p QoS managed by switch configuration
	ON	Enable 802.1p QoS on ports 1 and 2 (Set CoS priority to tag 4 on ports 1 and 2) Takes precedence over 802.1p QoS switch configuration
5	OFF	Port 9 SFP set to Gigabit speed full duplex
	ON	Port 9 SFP set to 100Mbps speed full duplex
6	OFF	Port 10 SFP set to Gigabit speed full duplex
	ON	Port 10 SFP set to 100Mbps speed full duplex

3. LED Indicators DIP Switch TI-G642i / TI-G160i /TI-G102i

TI-G642i

LED	Status	Function
PWR	OFF	Terminal block PWR failure or disconnected
	ON	Terminal block PWR is connected
RPS	OFF	Terminal block RPS failure or disconnected
	ON	Terminal block RPS is connected
ALM (Red)	OFF	No alarm setup
	ON	PWR/RPS failure or disconnected
10/100/ 1000Mbps (Ports 1 – 4)	OFF	Link speed established at 10Mbps or 100Mbps
	ON	Link speed established at 1000Mbps
LINK/ACT (Ports 1 – 4)	OFF	No link/port is disconnected
	ON	Port connection is established
	Blinking	Data transmission
SFP 5 – 6	OFF	No link/SFP is disconnected
	ON	SFP link is established
	Blinking	Data transmission

TI-G160i

LED	Status	Function
PWR	OFF	Terminal block PWR failure or disconnected
	ON	Terminal block PWR is connected
RPS	OFF	Terminal block RPS failure or disconnected
	ON	Terminal block RPS is connected
ALM (Red)	OFF	No alarm setup
	ON	PWR/RPS failure or disconnected
10/100/ 1000Mbps (Ports 1 – 4)	OFF	Network speed at 10/100 Mbps
	ON	Network speed at 1000 Mbps
LINK/ACT (Ports 1 – 4)	OFF	Port disconnected
	ON	Port connection is established
	Blinking	Data is transmitting/receiving

TI-G102i

LED	Status	Function
PWR	OFF	Terminal block PWR failure or disconnected
	ON	Terminal block PWR is connected
RPS	OFF	Terminal block RPS failure or disconnected
	ON	Terminal block RPS is connected
ALM (Red)	OFF	No alarm setup
	ON	PWR/RPS failure or disconnected
10/100/ 1000Mbps (Ports 1 – 8)	OFF	Link speed established at 10Mbps or 100Mbps
	ON	Link speed established at 1000Mbps
LINK/ACT (Ports 1 – 8)	OFF	No link/port is disconnected
	ON	Port connection is established
	Blinking	Data transmission
SFP 9 – 10	OFF	No link/SFP is disconnected
	ON	SFP link is established
	Blinking	Data transmission

Note: To download the latest version of the user's guide, please go to http://www.trendnet.com/support and select the **TI-G642i / TI-G102i** within the Products Download dropdown list.

Declaration of Conformity

TRENDnet

Nom et adresse du fabricant
TRENDnet, Inc.
20675 Manhattan Place
Torrance, CA 90501 USA

Zwolsestraat 156 2587 WB
The Hague The Netherlands

CE

Détails du produit:

Modèle: TI-G642i / TI-G160i / TI-G102i

Nom du produit: Switch rail DIN industriel administrable L2 Gigabit à 6 ports
Switch industriel Gigabit de L2 Managed à 16 ports
Switch rail DIN industriel administrable L2 Gigabit à 10 ports

Nom Commercial: TRENDnet

TRENDnet déclare par la présente que le produit est conforme aux exigences essentielles et aux autres dispositions pertinantes de la Directive en vertu de notre seule responsabilité.

CEM
EN 55011: 2009 + A1: 2010 (Group 1, Class A) (TI-G160i, TI-G642i)
EN 55032: 2015 + AC: 2016 Class A (TI-G160i, TI-G102i)
EN 55022: 2010 + AC: 2011 Class A (TI-G642i)
EN 61000-6-4: 2007 + A1: 2011 (TI-G160i, TI-G642i)
EN 55024: 2010 + A1: 2015 (TI-G160i, TI-G102i)
EN 55024: 2010 (TI-G642i)
EN 61000-6-2: 2005 + AC: 2005 (TI-G160i, TI-G642i)

Ce produit est conforme à la directives suivante.

Directives:
Directive CEM 2014/30/EU
Directive 2015/863/UE (RoHS 3)
Directive RoHS 2011/65/EU
REACH Réglement (CE) N° 1907/2006
Directive WEEE 2012/19/UE

Personne responsable de cette déclaration.

Lieu de délivrance: Torrance, California, USA
Date: 17 Juin, 2021
Nom: Sonny Su
Position: Vice-président de Technologie

Signature:

TrendNet, Inc. INCORPORATED SEPT. 3 2009 CALIFORNIA

Declaration of Conformity

TRENDnet

Manufacturer's Name and Address
TRENDnet, Inc.
20675 Manhattan Place
Torrance, CA 90501 USA

UK CA

Authorized Representative:
Office: +44 (0) 1635 887 399
Unit 4 Rivermead Business Park,
Pipers Way, Thatcham, RG19 4EP England

Product Information:

Model Number: TI-G642i / TI-G160i / TI-G102i

Product Name: 6-Port Industrial Gigabit L2 Managed DIN-Rail Switch
16-port Industrial Gigabit L2 Managed Switch
10-Port Industrial Gigabit L2 Managed DIN-Rail Switch

Trade Name: TRENDnet

TRENDnet hereby declare that the product is in compliance with the essential requirements and other relevant provisions under our sole responsibility.

EMC
EN 55011: 2009 + A1: 2010 (Group 1, Class A) (TI-G160i, TI-G642i)
EN 55032: 2015 + AC: 2016 Class A (TI-G160i, TI-G102i)
EN 55022: 2010 + AC: 2011 Class A (TI-G642i)
EN 61000-6-4: 2007 + A1: 2011 (TI-G160i, TI-G642i)
EN 55024: 2010 + A1: 2015 (TI-G160i, TI-G102i)
EN 55024: 2010 (TI-G642i)
EN 61000-6-2: 2005 + AC: 2005 (TI-G160i, TI-G642i)

This product is herewith confirmed to comply with the Directives.

Directives:
Electromagnetic Compatibility Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
The REACH Enforcement Regulations 2008 (as amended)
The Waste Electrical and Electronic Equipment Regulations 2013 (as amended)

Person responsible for this declaration.

Place of Issue: Torrance, California, USA
Date: June 17, 2021
Name: Sonny Su
Title: VP of Technology

Signature:

TRENDnet®

Certifications

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received. Including interference that may cause undesired operation.

Waste electrical an electronic products must not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or Retailer for recycling advice.

- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- FCC Caution: Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Technical Support

If you have any questions regarding the product installation, please contact our Technical Support.
Toll free US/Canada: **1-855-373-4741**
Regional phone numbers available at www.trendnet.com/support

TRENDnet

20675 Manhattan Place
Torrance, CA 90501
USA

Applies to PoE Products Only: This product is to be connected only to PoE networks without routing to the outside plant.

Note

The Manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Advertencia

En todos nuestros equipos se mencionan claramente las caracteristicas del adaptador de alimentacón necesario para su funcionamiento. El uso de un adaptador distinto al mencionado puede producir daños fisicos y/o daños al equipo conectado. El adaptador de alimentación debe operar con voltaje y frecuencia de la energia electrica domiciliaria exitente en el pais o zona de instalación.

Power supply connected caution

The equipment power supply cord shall be connected to a socket-outlet with earthing connection.

Advertencia

Le cordon d'alimentation de l'appareil doit être raccordé à une prise de courant avec mise à la terre.

If the Optical Transceiver doesn't ship with the unit, the user manual shall have description as below or equivalent: "This product is intended to be use with a UL Listed Optical Transceiver product, Rated DC3.3V, Laser Class I."

Product Warranty Registration

Please take a moment to register your product online. Go to TRENDnet's website at:
www.trendnet.com/register