



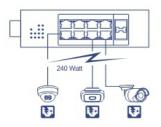
## 10-Port Industrial Gigabit L2 Managed PoE+ DIN-Rail Switch 24 – 57V

#### TI-PG102i (v1.0R)

- 8 x Gigabit PoE+ ports
- 2 x SFP slots
- Supports 100/1000Base-FX fiber SFP modules
- PoE power budget: 240W@48VDC or 124W@24VDC
- · PoE alive check restarts unresponsive PoE powered devices
- · 20Gbps switching capacity
- · Hardened IP30 rated metal housing
- · Includes DIN-rail mounting bracket
- Operating temperature range of -40° 75° C (-40° 167° F)
- Supports LACP, STP/RSTP, VLAN, and IGMP Snooping
- IEEE 802.1p QoS with queue scheduling support
- · Bandwidth control per port
- · Dual redundant power inputs with overload current protection
- · Alarm output triggered by power failure
- Power supply sold separately (models: TI-S24048, TI-S48048, TI-S12024)

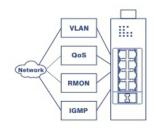
TRENDnet's 10-Port Industrial Gigabit L2 Managed PoE+ DIN-Rail Switch, model TI-PG102i, features eight Gigabit PoE+ ports with a 240W PoE budget, and includes two SFP slots that support both 100Base-FX and 1000Base-FX modules for long distance fiber applications. The hardened switch is equipped with an IP30 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 environments. Advanced traffic management controls, troubleshooting, and SNMP monitoring support make this a powerful solution for SMB networks.

# TRENDIET



#### **PoE Power**

A 240W PoE power budget supplies up to eight Power over Ethernet devices, and includes advanced PoE port controls such as enabling / disabling PoE, power priority, PD alive check, and power scheduling.



#### **Integration Flexibility**

Managed features include access control lists, VLAN, IGMP snooping, QoS, RMON, SNMP trap, and syslog for monitoring and flexible network integration.



#### **Industrial Design**

Equipped with an IP30 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 environments.

**Networking Solution** 







#### **Network Ports**

8 x Gigabit PoE+ ports, 2 x Gigabit SFP Slots



#### **PoE Power**

Supplies up to 30W of PoE+ power per port with a 240W power budget



#### **Full PoE Control Per Port**

Available PoE port controls include enabling / disabling PoE, power priority, PD alive check, and power scheduling



#### **Traffic Management**

Managed features include 802.1Q, MAC & Port Isolation VLAN, IGMP Snooping, per port bandwidth control / 802.1p / DSCP / Queue Scheduling (SPQ / WRR), STP / RSTP spanning tree, and link aggregation for flexible network integration



#### **System Monitoring**

Monitoring features include SNMP v1 / v2c / v3, MIB support, SNMP trap, RMON Groups (1, 2, 3, 9), SMTP alert, syslog, port mirroring, and SFP DDMI



#### **DIN-Rail Mount**

IP30 rated metal enclosure includes DIN-rail mounting bracket



#### **Switching Capacity**

20Gbps switching capacity



#### **Access Control**

Managed access control features include ACLs, IP-MAC-Port binding, ARP inspection, 802.1X RADIUS, MAC address learning, DHCP snooping and IP Source Guard provides layered network access controls



#### **Redundant Power**

Dual redundant power inputs with overload current protection (power supply sold separately: TI-S24048, TI-S48048, TI-S12024)



#### **Alarm Relay**

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



#### **Jumbo Frame**

Sends larger packets, or Jumbo Frames (up to 10KB), for increased performance



#### Wide Temperature Range

A wide operating temperature range of  $-40^{\circ} - 75^{\circ}$  C ( $-40^{\circ} - 167^{\circ}$  F) allows for installations in extreme hot or cold environments



#### **Shock and Vibration Resistant**

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



#### **Grounding Point**

Grounding point protects equipment from external electrical surges



### **Specifications**

Standards	• IEEE 802.1d • IEEE 802.1p • IEEE 802.1Q • IEEE 802.1w • IEEE 802.1x • IEEE 802.1ab • IEEE 802.1ax • IEEE 802.3 • IEEE 802.3u • IEEE 802.3x • IEEE 802.3z • IEEE 802.3ab • IEEE 802.3ad • IEEE 802.3ad • IEEE 802.3af • IEEE 802.3af
Device Interface	8 x Gigabit PoE+ ports     2 x 100/1000Mbps SFP slots     6-pin removable terminal block (primary/RPS power inputs & alarm relay output)     DIP switches     LED indicators     Reset button
Data Transfer Rate	Ethernet: 10Mbps (half-duplex), 20Mbps (full-duplex)     Fast Ethernet: 100Mbps (half duplex), 200Mbps (full duplex)     Gigabit Ethernet: 2000Mbps (full duplex)
Performance	Switch fabric: 20Gbps     RAM buffer: 512KB     MAC address table: 8K entries     Jumbo frames: 10KB     Forwarding mode: store and forward     Forwarding rate: 14.88Mpps (64-byte packet size)
Management	HTTP web-based GUI CLI: Telnet / SSHv2 SNMP v1, v2c, v3 SNMP trap (up to 5 receivers) RMON groups 1/2/3/9 Device configuration backup & restore, upgrade firmware, reboot, and reset to default Multiple administrative or read-only user accounts Enable or disable power saving mode per port Static MAC entries LLDP (Link layer discovery protocol) Netlite device map ONVIF device discovery SNTP SMTP alert Syslog Port statistics/utilization Traffic monitor Port mirror: one to one, many to one Storm control: Broadcast, multicast, destination lookup failure (Min. limit: 1pps) Loopback detection DHCP relay/option 82 SFP DDMI (Digital Diagnostic Monitoring Interface)
MIB	MIB II RFC 1213     Bridge MIB RFC 1493     RMON (Group 1,2,3,9) RFC 2819 RFC 1757

Spanning Tree	IEEE 802.1d STP (spanning tree protocol)     IEEE 802.1w RSTP (rapid spanning tree protocol)     BPDU filter, guard, and root guard		
Link Aggregation	Static link aggregation and 802.3ad dynamic LACP (Up to 3 groups)		
Quality of Service (QoS)	802.1p Class of service (CoS)     DSCP (Differentiated Services Code Point)     Bandwidth control per port     Queue Scheduling: strict priority (SP), weighted round robin (WRR), weighted fair queuing (WFQ)		
VLAN	802.1Q tagged VLAN     MAC-based VLAN     Port isolation     Up to 256 VLAN groups, ID range 1-4094		
Multicast	IGMP snooping v1, v2, v3     IGMP querier     IGMP fast leave     Up to 256 multicast groups     Static multicast entries		
Access Control	802.1X authentication (Local user database, RADIUS, guest VLAN assignment)     DHCP snooping/screening     Trusted host/IP access list for management access     Port Security/MAC address learning restriction (Up to 100 entries per port)     Static/dynamic ARP inspection		
ACL	Source/Destination MAC address     Source/Destination IP address     Source Interface     VLAN ID     EtherType     TCP/UDP port 1-65535		
Special Features	Netlite device discovery and map display in GUI Port security: MAC address learning restriction per port DHCP relay/option 82 & DHCP server snooping/screening support Wide operating temperature range Dual redundant power inputs Alarm relay triggered by power failure Surge and ESD protection		
Power	PWR (Primary) terminal input: 24 – 57V DC  RPS (Redundant) terminal input: 24 – 57V DC  Compatible power supply: TI-S12024 (120W), TI-S24048 (240W), TI-S48048 (480W) sold separately  Max. Consumption: 13W (no PoE load), 253W (full PoE load)		
PoE	PoE budget: 240W@48V DC input, 124W@24V DC input 802.3at: Up to 30W per port PoE Mode A: Pins 1, 2, 3, and 6 for power PoE auto classification PoE port priority/power scheduling/PD alive check Over current/short circuit protection		
Terminal Block	Redundant power inputs, alarm relay contact, 6 pin Wire range: 0.5 mm^2 to 2.5 mm^2 Solid wire (AWG): 12-26 Stranded wire (AWG): 12-26 Wire strip length: 10-11mm		



Din Switch			
Dip Switch	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
Alarm Relay Output	• Short of	circuit m	with current carrying capacity of 1A, 24V DC ode when one power source is connected ode when two power sources are connected

Enclosure	IP30 rated metal enclosure
	Fanless passive cooling
	• DIN-Rail mount
	• Grounding point
	ESD (Ethernet) Protection: 8KV DC     Surge (Payer) Protection: 6KV DC
	Surge (Power) Protection: 6KV DC
MTBF	• 562,234 hours @ 25° C
	• 142,948 hours @ 75° C
Operating	• -40° – 75° C (-40° – 167° F)
Temperature	,
Operating	Max. 95% non-condensing
Humidity	
Dimensions	• 160 x 120 x 50mm (6.3 x 4.72 x 1.97 in.)
Weight	• 930g (2.05 lbs.)
Certifications	• CE
	• FCC
	• Shock (IEC 60068-2-27)
	• Freefall (IEC 60068-2-32)
	• Vibration (IEC 60068-2-6)
Warranty	• 3 years
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#### PACKAGE CONTENTS

- TI-PG102i
- · Quick Installation Guide
- · Removable terminal block
- DIN rail mounting bracket

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