7-port Unmanaged Industrial PoE Switch

TI-1004GPH-2GS

7-port Unmanaged Industrial Ethernet PoE Switch

IEEE 802.3bt max 90W output power over Ethernet

Overview

Teroline's TI-1004GPH-2GS is an unmanaged Industrial Ethernet PoE Switch with 4 x 10/100/1000Base-T 802.3af/at/bt PoE ports, 1 x 10/100/1000Base-T and 2 x 1000Base-X SFP uplink ports. It is featured with LAN port isolation configuration and PoE watchdog functions, which can be easily configured by DIP switches on the top panel.

TI-1004GPH-2GS is an ideal and cost-effective solution for industrial automation applications. It's designed with input 48-57VDC, redundant inputs with polarity reverse and over-voltage protection, enclosed in a robust IP30 fan-less housing with DIN-rail installation clamp to support extended operation temperature from -40°C to 75°C as well as enhanced EMI/EMC capability. It is easy and fast to deploy in manufacturing facilities, transportation, oil & gas, chemistry, video surveillance and other various industry automation networks in which the operation condition is harsh and electromagnetic compatibility must be fulfilled.
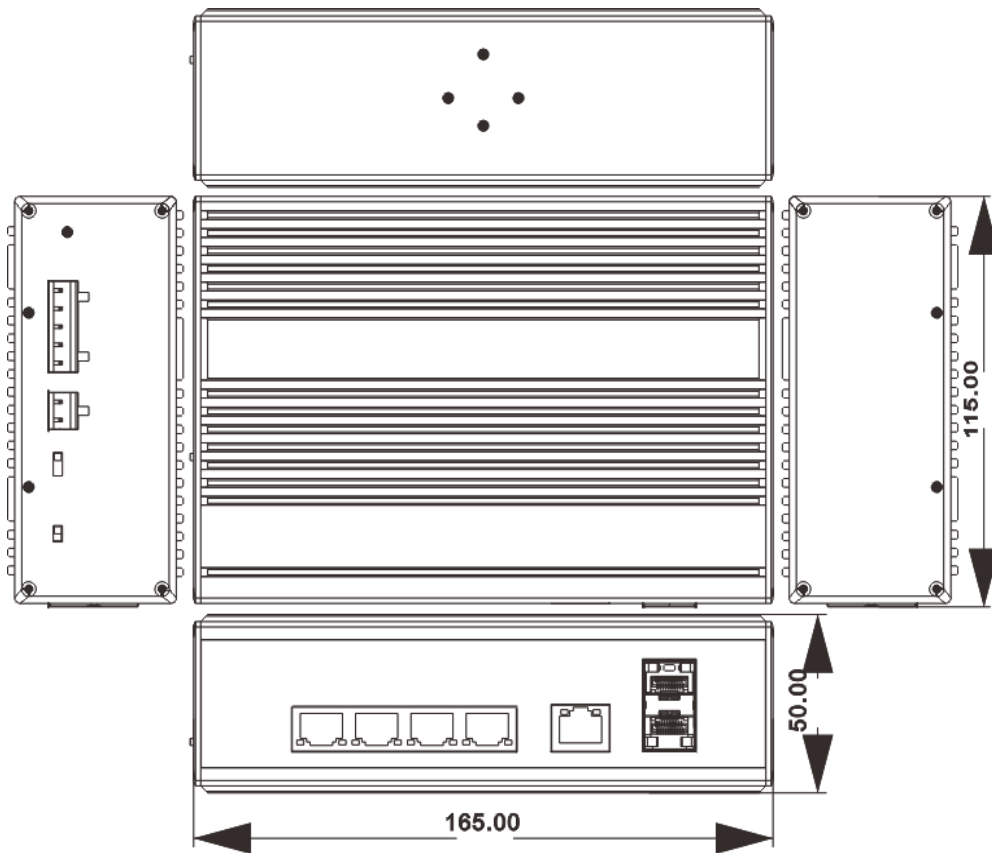
Key features

> 2 x 1000Base-X SFP fiber + 1 x 10/100/1000Base-T RJ45 uplink interfaces, and 4 x 10/100/1000BASE-T RJ45 PoE LAN interfaces

> LAN Port 1 & 2 supports max 90W output each, Port 3 & 4 max 30W output each

> DIP-switch configuration for LAN port isolation and PoE watchdog functions

> Alarm relay port for power failure, network disconnection and PoE failure indication

> IP30 protection level, Fan-less design, and DIN-rail mounted

> 6KV surge protection; ESD: 8KV/contact, 15KV/air protection

> Dual redundant DC48-57V inputs, with reverse & over-voltage protection

> Operation temperature from -40 to +75°C

Specifications

Interface Specifications	Fiber port	2 * 1000Base-X SFP
	Copper port:	1 * 10/100/1000Base-T RJ45 WAN 4 * 10/100/1000Base-T PoE (RJ45) Port 1 – 2 for 90W max output each Port 3 – 4 for 30W max output each
	Alarm relay	1 * alarm rely output port (For power failure, PoE failure and link down)
Power Specifications	Input voltage:	48-57VDC, redundant inputs
	Input current	5.3A max
	Power consumption	≤ 5W without PoE (full load) ≤ 240W with PoE (full load)
	Power interface	5-pin terminal block
	Reverse polarity protection	Supported
	Over-voltage protection	Supported
LED Indicators	1 – PWR (Red)	Power on indicator
	2 – LNK/ACT (Green)	RJ45 LAN link up/down/act indicator per port
	3 – PoE (Yellow)	RJ45 LAN port PoE status indicator per port
	4 – LNK/ACT (Green)	RJ45 WAN link up/down/act indicator
	5 – LNK/ACT (Green)	SFP port link up/down/act indicator per port
DIP Switch	1 – Port isolation	LAN port isolation enable/disable
	2 – PoE watchdog	Power over Ethernet watchdog on/off
Switching features	Switching capacity	14Gbps
	Packet forwarding rate	10.42Mpps
	MAC address table	8K
	Buffer	1Mb
	Forwarding delay	< 5us
	Auto MDI/MDIX	Supported
	Watchdog	Supported
Standards	IEEE 802.3	10BASE-T
	IEEE 802.3u	100BASE-TX
	IEEE 802.3ab	1000BASE-T
	IEEE 802.3x	Full-duplex flow control
	IEEE 802.3af	PoE
	IEEE 802.3at	PoE+
	IEEE 802.3bt	PoE++
Environment	Operating temperature	-40°C to +75°C
	Storage temperature	-40°C to +85°C
	Relative humidity	5% to 95% (non-condensing)
	Thermal design	Fan-less, natural heat dissipation
	MTBF	100,000 hours
Standards compliance	Power surge protection	IEC 61000-4-5 (6KV/2KV) (8/20us)
	Ethernet port surge protection	IEC 61000-4-5 (4KV/2KV) (10/700us)
	DIP	IEC 61000-4-11 Level 3 (10V)
	ESD	IEC 61000-4-2 (8K/15K)

	Shock	IEC 60068-2-27
	Free fall	IEC 60068-2-32
	Vibration	IEC 60068-2-6
	Certifications	CE, FCC, RoHS
Physical parameters	Dimensions	50(W)*115(D)*165(H)mm
	Weight	Net weight 0.7KG
	Protection Level	IP30
	Installation Method	DIN-Rail/desktop

Physical dimensions

Ordering information

Model	Description
TI-1004GPH-2GS	Unmanaged Industrial Ethernet PoE switch, 4x10/100/1000Base-T RJ45 PoE++ (Port 1&2 for 90W, Port 3&4 for 30W) + 1x10/100/1000Base-T RJ45 and 2x1000Base-X SFP ports, IEEE 802.3af/at/bt compliant, DC48-57V input, dual redundant power inputs, Din-rail, operation temperature: -40°C to +75°C