

ITP-G804T-8PH24i & ITP-G804T-8PH-WVi

- ◀ 12x Gigabit M12 with 8x PoE 60W, 24/48VDC
- ▶ 12x Gigabit M12 with 8x PoE 60W, 24/48/72/96/110VDC

Preliminary

- ◆ 24/48/72/96/110VDC Redundant Dual Power Input
- ◆ Supports Power Isolation
- ◆ Supports High Power PoE 802.3bt
- ◆ M12 Connector for UTP and Power
- ◆ EN50155, EN50121-4, EN61000-6-2, EN61000-6-4, EN45545-2, CE and FCC Certified



As an EN50155 certified M12 PoE switch, ITP-G804T-8PH24i & ITP-G804T-8PH-WVi has 12x Gigabit M12 X-code ports. Designed for heavy industrial, vehicle and rolling stock applications, utilizing M12 connectors to ensure secure connections and reliable operation, and withstand environmental disturbances such as vibration and shock, 24/48VDC or 24/48/72/96/110VDC isolated power input design, compatible with vehicle battery power supply, realizes PoE function through voltage boosting. EN50155 certification covers operating temperature, mains input voltage, surge, ESD, vibration and shock, making the switch suitable for vehicle, rolling stock applications.

Features

- Supports power isolation
- Use M12 connector anti vibration and shock for vehicle, rolling stock, and railway applications
- Regulated PoE output voltage (53VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100 meters
- Wide operating temperature -40~75°C
- CE, FCC, EN51055, EN50121-4 and EN45545-2 for railway certified
- Industrial Grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified

Specifications

Standard	IEEE 802.3	10Base-T Ethernet
	IEEE 802.3u	100Base-TX Fast Ethernet
	IEEE 802.3ab	1000Base-T Gbit/s Ethernet over twisted pair
	IEEE 802.3x	Flow Control and Back Pressure
	IEEE 802.3af	PoE (Power over Ethernet)
	IEEE 802.3at	PoE+ (Power over Ethernet enhancements)
	IEEE 802.3bt	PoE++
Switch Architecture	Back-plane (Switching Fabric): 24Gbps (Full wire-speed)	
Data Processing	Store and Forward	
Flow Control	IEEE 802.3x flow control, back pressure flow control	
MAC Address Table	8K	
Packet Buffer Size	512K byte	
Network Connector	12x M12 X-code Female	
	10/100/1000Base-TX Auto negotiation speed	
	Auto MDI/MDI-X function	
	Full/Half duplex	
Network Cable	UTP/STP Cat. 5e cable above	
	EIA/TIA-568 100-ohm (100meter)	

EN50155 PoE Switch



Protocols	CSMA/CD				
LED	System: Power 1 (Green), Power 2 (Green)				
	UTP: 10/100 Link/Active (Green), 1000 Link/Active (Amber)				
	PoE: ON (Green)				
Reverse Polarity Protection	Present for power input				
Overload Current Protection	Supported				
PoE Standard	IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt				
PoE Power Budget	Maximum PoE output power budget 96W at 70°C (Max 90W/port), 60W at 75°C (Max 60W/port)				
Power Supply	Provides 1x M12 (5-Pin) for DC 24/48V (20~57VDC) or DC 24/48/72/96/110V (16~130VDC) input power				
	Built-in very high efficiency (97~98%) to boost PoE output voltage to 53VDC				
	Regulate PoE output voltage (53VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100 meters				
Power Consumption	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget	Boost Efficiency
	24 VDC	72W	5W	60W	98%
	48 VDC	73W	6W	60W	97%
	110 VDC	74W	7W	60W	N/A
Operating Temperature	-10 ~ 60°C (ITP-G804T-8PH24i, ITP-G804T-8PH-WVi) -40 ~ 75°C (ITP-G804T-8PHE24i, ITP-G804T-8PHE-WVi)				
Operating Humidity	5% to 95% (Non-condensing)				
Storage Temperature	-40 ~ 85°C				
Housing	Rugged metal, IP40 protection housing and fanless				
Dimensions	116.5 x 184.6 x 118mm (D x W x H)				
Weight	TBD				
Installation Mounting	Wall mounting				
MTBF	TBD				
Warranty	5 years				
Certification					
EMC	CE (EN55035, EN55032)				
EMI	FCC, FCC Part 15 Subpart B Class A				
	CE				
Railway Traffic	EN50155, EN50121-4				
Fire Protection of Railway Vehicles	EN45545-2				
Immunity for Heavy Industrial Environment	EN61000-6-2				
Emission for Heavy Industrial Environment	EN61000-6-4				
EMS (Electromagnetic Susceptibility) Protection Level	EN61000-4-2 (ESD) Level 3, Criteria B				
	EN61000-4-3 (RS) Level 3, Criteria A				
	EN61000-4-4 (Burst) Level 3, Criteria A				
	EN61000-4-5 (Surge) Level 3, Criteria B				
	EN61000-4-6 (CS) Level 3, Criteria A				
	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A				
Shock	EN61000-4-11 Voltage Dips				
Shock	IEC 61373				
Freefall	IEC 60068-2-32				
Vibration	IEC 61373				

Ordering Information

Model Name	Total Port	UTP M12		PoE	PoE Total Power Budget	Power Input		Certification				Shock Vibration	Operating Temperature
		10/100/1000 Base-T(X)	IEEE 802.3at	Redundant	EN45545-2	EN50155 EN50121-4	EN61000-6-2 EN61000-6-4	CE, FCC	IEC61373				
ITP-G804T-8PH24i	12	12	8	60W	24/48VDC	V	V	V	V	V	-10~60°C		
ITP-G804T-8PHE24i	12	12	8	60W	24/48VDC	V	V	V	V	V	-40~75°C		
ITP-G804T-8PH-WVi	12	12	8	60W	24~110VDC	V	V	V	V	V	-10~60°C		
ITP-G804T-8PHE-WVi	12	12	8	60W	24~110VDC	V	V	V	V	V	-40~75°C		

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Optional Accessories

Optional Cable/Connector

P/N: CAB-M12XM8-RJ45

M12 X-code Male (8-Pin) to RJ-45, AWG 24 ,IP67, 1 meter



For GbE UTP (X-code model)

P/N: CAB-M12KF5-OPEN

M12 K-code Female (5-Pin) to open wire , AWG 16 , IP67, 1 meter



For Power

P/N: M12X-M8

M12 X-code Male (8-Pin) connector, IP67



For GbE UTP (X-code model)