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

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

NEW



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)
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)
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
PoE Power Budget	Maximum PoE output power budget, 60W at 75°C (Max 30W/port)
Power Supply	Provides 1x M12 (5-Pin) for DC 24/48V (20~57VDC) or DC 24/48/72/96/110V (20~130VDC) 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	130 x 172.6 x 100mm (D x W x H)
Weight	2.35kg
Installation Mounting	Wall mounting
MTBF	129,784 (ITP-G804T-8PH24i) 129,784 (ITP-G804T-8PHE24i) 129,784 (ITP-G804T-8PH-WVi) 129,784 (ITP-G804T-8PHE-WVi)
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
	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℃
ITP-G804T-8PHE24i	12	12	8	60W	24/48VDC	V	V	V	V	V	-40~75℃
ITP-G804T-8PH-WVi	12	12	8	60W	24~110VDC	V	V	V	V	V	-10~60℃
ITP-G804T-8PHE-WVi	12	12	8	60W	24~110VDC	V	V	V	V	V	-40~75℃

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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)