

## ITP-804GT-8PH24i

4x Gigabit M12 + 8x 10/100Base-TX M12 with 8x PoE 160W, 24/48VDC

» 24/48VDC Dual Power Inputs

» 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-804GT-8PH24i has 8x 10/100Base-TX M12 D-code Ethernet ports and 4x 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 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, EN50155, EN50121-4 and EN45545-2 for railway certified
- Industrial Grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified

## Specifications

<b>Standard</b>	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++
<b>Switch Architecture</b>	Back-plane (Switching Fabric): 9.6Gbps (Full wire-speed)	
<b>Data Processing</b>	Store and Forward	
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control	
<b>MAC Address Table</b>	8K	
<b>Packet Buffer Size</b>	4Mbits	
<b>Network Connector</b>	8x M12 D-code Female	
	10/100Base-TX Auto negotiation speed	
	4x M12 X-code Female	
	10/100/1000Base-TX Auto negotiation speed	
	Auto MDI/MDI-X function	
	Full/Half duplex	

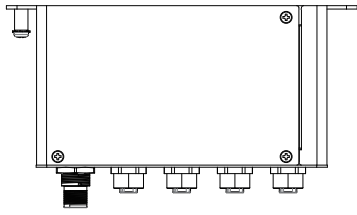
EN50155 PoE Switch

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, IEEE 802.3bt				
PoE Power Budget	Maximum PoE output power budget 160W (30W/port)				
Power Supply	Provides 1x M12 (5-Pin) for DC 24/48V (20~57VDC) 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	165W	5W	160W	98%
	48 VDC	167W	6W	160W	97%
Operating Temperature	-10 ~ 60°C (ITP-804GT-8PH24i) -40 ~ 75°C (ITP-804GT-8PHE24i)				
Operating Humidity	5% to 95% (Non-condensing)				
Storage Temperature	-40 ~ 85°C				
Housing	Rugged metal, IP40 protection housing and fanless				
Dimensions	95 x 165 x 99mm (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				
	EN61000-4-11 Voltage Dips				
Shock	IEC 61373				
Freefall	IEC 60068-2-32				
Vibration	IEC 61373				

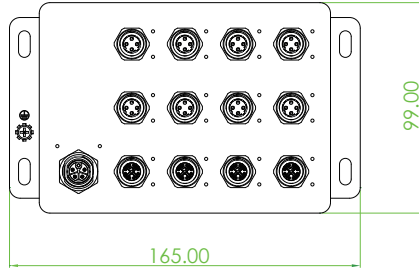
# EN50155 PoE Switch

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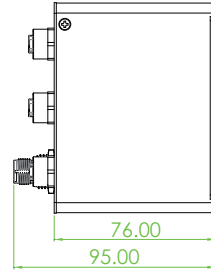
## Dimensions



Top View



Front View



Side View

## Ordering Information

Model Name	Total Port	UTP M12		PoE	PoE Total Power Budget	Power Input	Certification				Shock Vibration	Operating Temperature
		10/100 Base-TX	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-804GT-8PH24i	12	8	4	8	160W	24/48VDC	V	V	V	V	V	-10~60°C
ITP-804GT-8PHE24i	12	8	4	8	160W	24/48VDC	V	V	V	V	V	-40~75°C

## Optional Accessories

### ■ Optional Cable/Connector

#### P/N: CAB-M12DM4-RJ45

M12 D-code Male (4-Pin) to RJ-45, AWG 24 ,IP67, 1 meter



For FE UTP

#### 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: M12D-M4

M12 D-code Male (4-Pin) connector, IP67



For FE UTP

#### P/N: M12X-M8

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



For GbE UTP (X-code model)