

EN50155 PoE Switch

2x Gigabit M12 + 8x 10/100Base-TX M12 with 8x PoE 120W, 24/48VDC

- >> 24/48VDC Power Input
- » Regulated PoE Output Voltage
- >> 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-802GT-8PH24 has 8x 10/100Base-TX M12 D-code Ethernet ports and 2x 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. 24VDC 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

- 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): 5.6Gbps (Full wire-speed)						
Data Processing	Store and Forward						
Flow Control	IEEE 802.3x flow control, back pressure flow control						
MAC Address Table	4 K						
Packet Buffer Size	448Kbits						
Network Connector	8x M12 D-code Female						
	10/100Base-TX Auto ne	egotiation speed					
	2x M12 X-code Female						
	10/100/1000Base-TX Auto negotiation speed						
	Auto MDI/MDI-X function						
	Full/Half duplex						
Network Cable	· · · · · · · · · · · · · · · · · · ·						
	EIA/TIA-568 100-ohm (100meter)						

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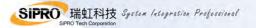
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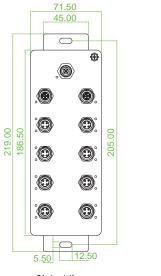


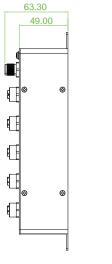
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Protocols	CSMA/CD							
LED	System: Power 1 (Green)							
	Per: Link/Active (Green)							
December Delevite Destruction	PoE: ON (Green)							
Reverse Polarity Protection	Present for power input							
Overload Current Protection	Supported							
PoE Standard	IEEE 802.3af, IEEE 802.3at							
PoE Power Budget	Maximum PoE output power budget 120W (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	125W	3.6W	120W	98%			
	48 VDC	127W	4.3W	120W	97%			
Operating Temperature	-10 ~ 60°C (ITP-802GT-8PH24) -40 ~ 75°C (ITP-802GT-8PHE24)							
Operating Humidity	5% to 95% (Non-condensing)							
Storage Temperature	-40 ~ 85°C							
Housing	Rugged metal, IP40 protection housing and fanless							
Dimensions	63.3 x 71.5 x 219mm (D x W x H)							
Weight	· ·							
Installation Mounting	Wall mounting							
MTBF	531,231 Hours (MIL-HDBK-217)							
Certification								
EMC	CE (EN55035, EN	CE (EN55035, EN55032)						
EMI	FCC, FCC Part 15 Subpart B Class A							
	CE							
Railway Traffic	EN50155, EN501	21-4						
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	EN61000-4-2 (ESD) Level 3, Criteria B							
Susceptibility)	EN61000-4-3 (RS) Level 3, Criteria A							
Protection Level	EN61000-4-4 (Burst) Level 3, Criteria A							
	,	urge) Level 3, Criteria B						
		S) Level 3, Criteria A						
	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A							
	EN61000-4-11 Voltage Dips							
Shock	20 0,0.0							
Freefall	120 00000 2 02							
Vibration	IEC 61373							

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Dimensions







Side View

Front View

Rear View

Ordering Information

Model Name	Total _ Port	UTP M12		PoE	PoE Total	Power Input	Certification			Shock Vibration	Operating	
		10/100 Base-TX	10/100/1000 Base-T(X)	IEEE 802.3at	Power Budget	Redundant	EN45545-2	EN50155 EN50121-4	EN61000-6-2 EN61000-6-4		IEC61373	Temperature
ITP-802GT-8PH24	8	8	2	8	120W	24/48VDC	V	V	V	V	V	-10~60°C
ITP-802GT-8PHE24	8	8	2	8	120W	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-M12AF5-OPEN

M12 A-code Female (5-Pin) to open wire, AWG 22, IP67, 1 meter



For Power

P/N: CAB-M12XM8-RJ45

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



For Alarm

P/N: M12D-M4

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



For FE UTP