

ITP-800A-8PH24

EN50155 PoE Switch

8x FE M12 with 8x PoE 120W, 24/48VDC

- >> 24/48VDC Redundant Dual Power Input
- >> Regulated PoE Output Voltage
- >> M12/M23 Connector for UTP and Power
- » EN50155, EN50121-4, EN61000-6-2, EN61000-6-4, EN62368-1, EN45545-2, CE and FCC Certified













The EN50155 certified M12 PoE switches ITP-800A-8PH24, metal housing IP40 protection, have 8x 10/100Base-TX M12 D-code Ethernet ports, fanless and redundant power input. 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/M23 connector anti vibration and shock for vehicle, rolling stock, and railway applications
- 24/48VDC (20~57VDC) redundant dual input power with built-in very high efficiency (97~98%) to boost PoE output voltage to 50VDC
- Regulated PoE output voltage (50VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100 meters
- Wide operating temperature -40~75°C (ITP-800A-8PHE24)
- CE, FCC, EN62368-1, 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 802.3x	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): 1.6Gbps (Full wire-speed)						
Data Processing	Store and Forward						
Flow Control	IEEE 802.3x flow control, back pressure flow control						
MAC Address Table	1 K						
Packet Buffer Size	448Kbits						
Network Connector	8x M12 D-code Female						
	10/100Base-TX Auto negotiation speed Auto MDI/MDI-X function						
Full/Half duplex							
Network Cable	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)								
	Per: Link/Active (Green)								
	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), Regulated PoE output voltage at 50VDC								
Power Supply	Provides 1x M23 (5-Pin, male) for redundant dual DC, 24/48V (20~57VDC) input power								
	Built-in very high efficiency (97~98%) to boost PoE output voltage to 50VDC								
	Regulate PoE output voltage (50VDC) 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	-800A-8PH24)							
	-40 ~ 75°C (ITP								
Operating Humidity	5% to 95% (Non-condensing)								
Storage Temperature	-40 ~ 85°C								
Housing	Rugged metal, IP40 protection housing and fanless								
Dimensions	64 x 71.5 x 219mm (D x W x H)								
Weight	860g								
Installation Mounting	Wall mounting								
MTBF	937,878 Hours (937,878 Hours (MIL-HDBK-217)							
Certification									
EMC	CE (EN55024, EN	N55032)							
EMI	FCC, FCC Part 15 Subpart B Class A								
	CE								
Railway Traffic	EN50155, EN50121-4								
Fire Protection of Railway	EN45545-2								
Vehicles									
Immunity for Heavy Industrial Environment	EN61000-6-2								
Emission for Heavy									
Industrial Environment	EN61000-6-4								
EMS	EN61000-4-2 (ES	SD) Level 3, Criteria B							
(Electromagnetic Susceptibility)	EN61000-4-3 (R	S) Level 3, Criteria A							
Protection Level	EN61000-4-4 (B	urst) Level 3, Criteria A							
	EN61000-4-5 (S	urge) 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								
Safety	EN62368-1								
Shock	IEC 61373								
Freefall									
Vibration									

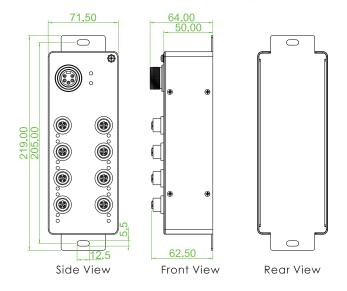
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Vibration IEC 61373





Dimensions



Ordering Information

Model Name	Total	UTP M12	PoE	Power PoE Total Input		Certification				Shock Vibration	Operating	
	Port	10/100 Base-TX	IEEE 802.3at	Power Budget	Redundant	EN45545-2	EN62368-1	EN50155 EN50121-4			IEC61373	Temperature
ITP-800A-8PH24	8	8	8	120W	24/48VDC	V	V	V	V	V	V	-10~60°C
ITP-800A-8PHE24	8	8	8	120W	24/48VDC	V	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: M12D-M4

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



For FE UTP

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