ITP-800A 8x 10/100Base M12



- M12 connector for Ethernet and Power
- EN50155, EN45545-2 for railway certified
- Rugged metal housing and fanless design
- Build-in 2 bypass port
- 12/24/48VDC redundant dual input power



The ITP-800A is an unmanaged, industrial grade, Fast Ethernet switch, with 8 x 10/100Base-TX Ethernet ports and is designed for industrial applications in harsh environments. The Ethernet ports utilize M12 connectors to ensure water-tight, robust connections and guarantee reliable operation against environmental disturbances such as vibration and shock. This switch is compliant with EN50155, covering operating temperature, power input voltage, surge, ESD, vibration, and shock, thus making it suitable for industrial applications in vehicle, rolling stock and factory automation.

Features

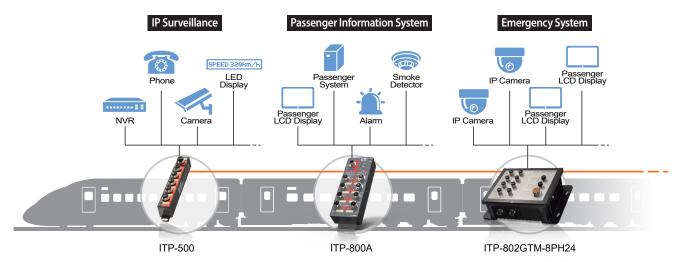
- Use M12 connector anti vibration and shock for vehicle, rolling stock, and railway applications
- Build-in 2 bypass port to avoid one or more nodes power fail in a bus structure to collapse the network
- Redundant dual DC input power 12/24/48VDC (8.4~60VDC)
- Rugged metal, IP40 protection and fanless design
- 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

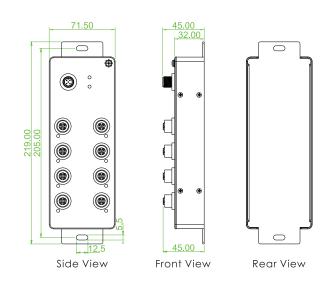
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IEEE Standard	IEEE 802.3 10Base-T Ethe	rnet	Operating	-40°C~75°C		
	IEEE 802.3u 100Base-TX I	Fast Ethernet	Temperature			
	IEEE 802.3x Flow Control		Operating Humidity	5% to 95% (Non-condensing)		
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps (Full wire-speed)		Storage Temperature	-40°C~85°C		
Data Processing	Store and Forward		Housing	Rugged metal housing, IP40 protection and fanless		
Flow Control	IEEE 802.3x flow control,	back pressure flow control	- Dimensions	45x 71.5x 219 mm (D x W x H)		
MAC Address Table	1 K		Weight	420g		
Packet Buffer Size	448Kbits		Installation	Wall mounting		
	8x M12 D-code Female		Mounting			
	10/100Base-TX auto neg		MTBF	1,492,660 Hours (MIL-HDBK-217)		
	Auto MDI/MDI-X functio	n	Warranty	5 years		
	Full/Half duplex		Certification			
	Built in 2 bypass port		EMC	CE (EN55024, EN55032)		
Network Cable	10Base-T: 2-pair UTP/STP	Cat. 5e cable	EMI	FCC, FCC Part 15 Subpart B Class A, CE		
	EIA/TIA-568 100-ohm (1	00m)	Railway Traffic	FN50155		
	100Base-TX: 2-pair UTP/9 EIA/TIA-568 100-ohm (19		Fire Protection of Railway Vehicles	EN45545-2		
Protocols	CSMA/CD		EMS (Electromagnetic Susceptibility) Protection Level	EN61000-4-2 (ESD) Level 3, Criteria B		
LED	Per unit: Power 1 (Green) Power 2 (Green)		EN61000-4-3 (RS) Level 3, Criteria A		
				EN61000-4-4 (Burst) Level 3, Criteria A		
	Per port: Link/Active (Gr	een)		EN61000-4-5 (Surge) Level 3, Criteria B		
Reverse Polarity Protection	Present for power input			EN61000-4-6 (CS) Level 3, Criteria A		
Overload Current			_	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A		
Protection				EN 61000-4-11 Voltage Dips		
Power Supply	Redundant Dual DC 12/24/48V (8.4~60VDC) Input power		Shock	IEC 61373		
Power Connector	5 Pin Male A-Code M12		Freefall	IEC 60068-2-32		
Power			Vibration	IEC 61373		
Power Consumption	Input Voltage	ITP-800A				
	12VDC	1.8W				
	24VDC 2.2W					
	48VDC	3.4W				

Application

Figure 1 : ITP Series in Onboard Train Application



Dimensions



Ordering Information

Model Name	Total Port	UTP Port M12	Redundant Power Supply	Certification			Shock Vibration	Operating
		10/100 Base-TX	12/24/48VDC (8.4~60VDC)	EN45545-2	EN50155	CE FCC	IEC61373	Temperature
ITP-800A-E	8	8	V	V	V	V	V	-40~75°C

Package List

• ITP-800A-E device

• Protective caps for UTP port and power

Wall mount

Optional Accessories

Optional Cable/Connector

P/N: CAB-M12DM4-RJ45 M12 D-code Male (4-Pin) to RJ-45, AWG 24 ,IP67, 1 meter







P/N: M12D-M4 M12 D-code Male (4-Pin)





P/N: M12A-F5

M12 A-code Female (5-Pin) connector, IP67

