

# ITP-800A

8x 10/100Base M12

- ▲ M12 connector for Ethernet and Power
- ▲ EN50155, EN50121-4, EN45545-2, EN61000-6-2, EN61000-6-4, CE and FCC certified
- ▲ Rugged metal housing and fanless design
- ▲ Build-in 2 bypass port
- ▲ 12/24/48VDC redundant dual input power



The EN50155 certified M12 type Ethernet switch, ITP-800A, metal housing, have 8 10/100Base-TX Fast Ethernet ports, fanless, IP40 protection, designed for industrial applications in harsh environments, and utilizes M12 connectors to ensure waterproof, Sturdy connections and guaranteed reliable operation without environmental disturbances such as vibration and shock. EN50155 certification covers critical regulation of operating temperature, mains input voltage, surge, ESD, vibration and shock, making it suitable for industrial applications such as vehicles, 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

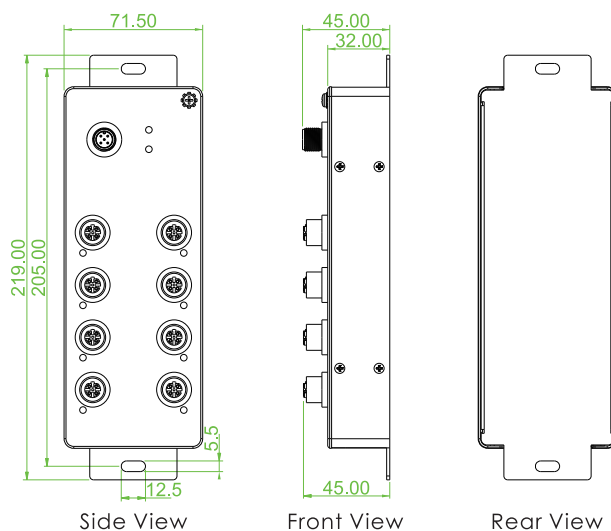
IEEE Standard	IEEE 802.3	10Base-T Ethernet
	IEEE 802.3u	100Base-TX Fast Ethernet
	IEEE 802.3x	Flow Control and Back Pressure
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps (Full wire-speed)	
Data Processing	Store and Forward	
Flow Control	IEEE 802.3x flow control, back pressure flow control	
MAC Address Table	1 K	
Packet Buffer Size	448Kbits	
Network Cable	8x M12 D-code Female	
	10/100Base-TX Auto negotiation speed	
	Auto MDI/MDI-X function	
	Full/Half duplex	
	Built in 2 bypass port	
Protocols	10Base-T: 2-pair UTP/STP Cat. 5e cable	
	EIA/TIA-568 100-ohm (100m)	
	100Base-TX: 2-pair UTP/STP Cat. 5e cable	
LED	EIA/TIA-568 100-ohm (100m)	
	CSMA/CD	
Reverse Polarity Protection	Per unit: Power 1 (Green), Power 2 (Green)	
	Per port: Link/Active (Green)	

Overload Current Protection	Supported								
Power Supply	Redundant Dual DC 12/24/48V (8.4~60VDC) Input power								
Power Connector	5 Pin Male A-Code M12								
Power Consumption	<table border="1"> <thead> <tr> <th>Input Voltage</th> <th>ITP-800A</th> </tr> </thead> <tbody> <tr> <td>12VDC</td> <td>1.8W</td> </tr> <tr> <td>24VDC</td> <td>2.2W</td> </tr> <tr> <td>48VDC</td> <td>3.4W</td> </tr> </tbody> </table>	Input Voltage	ITP-800A	12VDC	1.8W	24VDC	2.2W	48VDC	3.4W
Input Voltage	ITP-800A								
12VDC	1.8W								
24VDC	2.2W								
48VDC	3.4W								
Operating Temperature	-40°C~75°C								
Operating Humidity	5% to 95% (Non-condensing)								
Storage Temperature	-40°C~85°C								
Housing	Rugged metal housing, IP40 protection and fanless								
Dimensions	45x 71.5x 219 mm (D x W x H)								
Weight	420g								
Installation Mounting	Wall mounting								
MTBF	1,492,660 Hours (MIL-HDBK-217)								
Warranty	5 years								

## Certification

EMC	CE (EN55024, 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
Shock	IEC 61373
Freefall	IEC 60068-2-32
Vibration	IEC 61373

## Dimensions



## Ordering Information

Model Name	Total Port	UTP Port M12	Redundant Power Supply	Certification				Shock Vibration	Operating Temperature
		10/100Base-TX		12/24/48VDC (8.4~60VDC)	EN50155 EN50121-4	EN45545-2	EN61000-6-2 EN61000-6-4	CE FCC	
ITP-800A-E	8	8	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

**P/N: M12A-F5**

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



For Power