# **ITP-800**



#### IP56, 8x FE M12

- >> M12 Connector for Ethernet and Power
- >> Slim and Fanless Design
- >> Build-in 2 Bypass Port
- » EN50155, EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified













The EN50155 certified M12 type Ethernet switch, ITP-800, plastic housing, have 8x 10/100Base-TX Fast Ethernet ports, fanless, IP56 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.

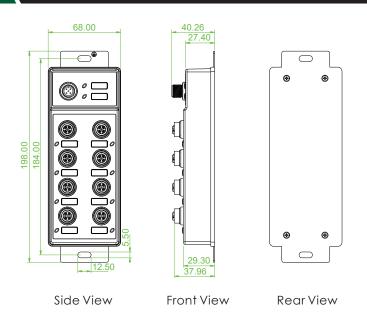
#### **Features**

- Use M12 connector anti vibration and shock for vehicle, rolling stock, and railway applications
- Slim design
- 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)
- Wide operating temperature -40~75°C (ITP-800-E)
- CE, FCC, EN50155 and EN50121-4 for railway certified
- Industrial Grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified

<b>Specifications</b>						
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	1K					
Packet Buffer Size	448Kbits					
Network Connector	8x M12 D-code Female					
	10/100Base-TX Auto nego	otiation speed				
	Auto MDI/MDI-X function					
	Full/Half duplex					
	Built in 2 bypass port					
Network Cable	UTP/STP Cat. 5e cable abo	ove				
	EIA/TIA-568 100-ohm (10	Ometer)				
Protocols	CSMA/CD					
LED	Per unit: Power 1 (Green), I	Power 2 (Green)				
	Per port: Link/Active (Green	n)				
Reverse Polarity Protection	Present for power input					
Overload Current Protection	Supported					

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Power Supply	Redundant Dual DC 12/24/48V	/ (8.4~60VDC) Input power						
Power Connector	5 Pin Male A-Code M12							
Power Consumption	Input Voltage	ITP-800						
	12VDC	1.8W						
	24VDC	2.2W						
	48VDC	3.4W						
Operating Temperature	-40 ~ 75°C							
Operating Humidity								
Storage Temperature	-40 ~ 85°C							
Housing	IP56 Rugged housing and fanless							
Dimensions	40.3 x 68 x 198mm (D x W x H)							
Weight	300g							
Installation Mounting	Wall mounting							
MTBF	1,492,660 Hours (MIL-HDBK-217)							
Warranty	5 years							
Certification								
EMC	CE							
EMI	FCC, FCC Part 15 Subpart B Class A, CE							
Railway Traffic	EN50155, EN50121-4							
Immunity for Heavy Industrial Environment	EN61000-6-2							
Emission for Heavy Industrial Environment	EN61000-6-4							
EMS	EN61000-4-2 (ESD) Level 3, C	Criteria B						
(Electromagnetic Susceptibility)	EN61000-4-3 (RS) Level 3, Criteria A							
Protection Level	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							
	EN 61000-4-11 Voltage Dips							
Shock	IEC 61373							
Freefall	IEC 60068-2-32							
Vibration	IEC 61373							

# **Dimensions**



### Ordering Information

Ordoring information											
Model Name Total Port	UTP M12	Redundant Power Supply	Certification			Shock Vibration	Operating				
	Port	10/100Base-TX	12/24/48VDC (8.4~60VDC)	EN50155	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	IEC61373	Temperature		
ITP-800-E	8	8	2	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

connector, IP67



For Power

M12 A-code Female (5-Pin)

