

8x FE 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 8x 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

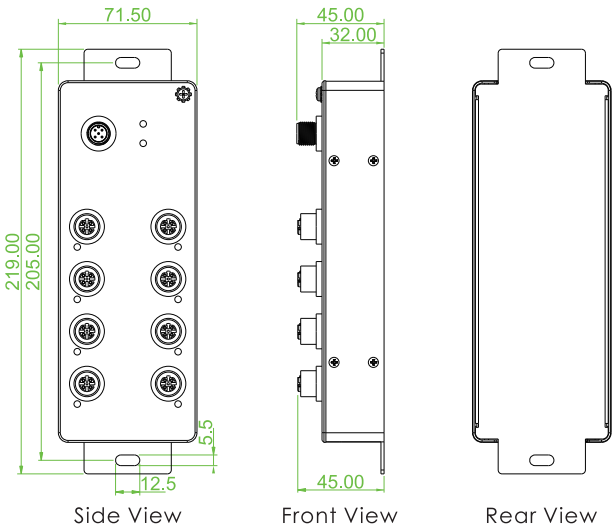
Specifications

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 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	
Network Cable	10Base-T: 2-pair UTP/STP Cat. 5e cable	
	EIA/TIA-568 100-ohm (100m)	
	100Base-TX: 2-pair UTP/STP Cat. 5e cable	
	EIA/TIA-568 100-ohm (100m)	
Protocols	CSMA/CD	
LED	Per unit: Power 1 (Green), Power 2 (Green)	
	Per port: Link/Active (Green)	

EN50155 Ethernet Switch

Reverse Polarity Protection	Present for power input	
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	Input Voltage	ITP-800A
	12VDC	1.8W
	24VDC	2.2W
	48VDC	3.4W
Operating Temperature	-40 ~ 75°C	
Operating Humidity	5% to 95% (Non-condensing)	
Storage Temperature	-40 ~ 85°C	
Housing	Rugged metal housing, IP40 protection and fanless	
Dimensions	45 x 71.5 x 219mm (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 (EN55035, 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	
	EN 61000-4-11 Voltage Dips	
Shock	IEC 61373	
Freefall	IEC 60068-2-32	
Vibration	IEC 61373	

Dimensions



EN50155 Ethernet Switch

Ordering Information

Model Name	Total Port	UTP 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	IEC61373	
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