EN50155 Ethernet Switch



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, 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
- 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 (Swit	Back-plane (Switching Fabric): 1.6Gbps (Full wire-speed)			
Data Processing	Store and Forwa	Store and Forward			
Flow Control	IEEE 802.3x flow	IEEE 802.3x flow control, back pressure flow control			
MAC Address Table	1 K				
Packet Buffer Size	448Kbits				
	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)				
Reverse Polarity Protec	tion Present for powe	erinput			

EN50155 Managed Switch

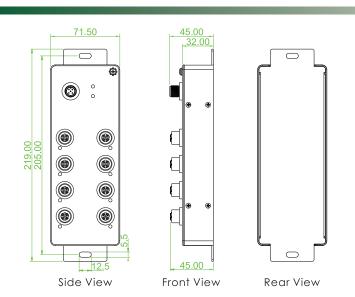
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Overload Current Protectio	n Supported			
Power Supply	Redundant Dual DC 12/24/48V (8.4~60VDC) Input power			
Power Connector	5 Pin Male A-Code M12			
Power Consumption	Input Voltage	ITP-800A		
	12VDC	1.8W		
	24VDC	2.2W		
	48VDC	3.4W		
Operating Temperature	-40°C~75°C			
Operating Humidity	5% to 95% (Non-condensir	ng)		
Storage Temperature	-40°C~85°C			
Housing	Rugged metal housing, IP40 protection and fanless			
Dimensions	45x 71.5x 219 mm (D x W x I	+)		
Weight	420g			
Installation Mounting	Wall mounting			
MTBF	1,492,660 Hours (MIL-HDB)	K-217)		
Warranty	5 years			

Certification

EMC	CE (EN55024, EN55032)				
EMI	FCC, FCC Part 15 Subpart B Class A, CE				
Railway Traffic	N50155, EN50121-4				
Fire Protection of Railway Vehicles	EN45545-2				
Immunity for Heavy Industrial Environment	N61000-6-2				
Emission for Heavy Industrial Environment	EN61000-6-4				
EMS	EN61000-4-2 (ESD) Level 3, Criteria B				
(Electromagnetic	EN61000-4-3 (RS) Level 3, Criteria A				
Susceptibility) Protection Level	EN61000-4-4 (Burst) Level 3, Criteria A				
I TOLECTION LEVEL	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				







5-87

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Ordering Information

	UTP Port M12	Redundant Power Supply	Certification			Shock Vibration			
Model Name	Model Name Total Port	10/100Base-TX	12/24/48VDC (8.4~60VDC)	EN50155 EN50121-4	EN45545-2	EN61000-6-2 EN61000-6-4	CE FCC	IEC61373	Operating Temperature
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: M12A-F5 M12 A-code Female (5-Pin) connector, IP67



For Power

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

