

ITP-500A

EN50155 Ethernet Switch

5x FE M12

- » M12 Connector for Ethernet and Power
- » Rugged Metal Housing, Slim and Fanless Design
- » EN50155, EN50121-4, EN45545-2, EN61000-6-2, EN61000-6-4, CE and FCC Certified



An EN50155 certified M12 type Ethernet switch, ITP-500A has 5x 10/100Base-TX Fast Ethernet ports, fanless, IP40 protection, designed for industrial applications in harsh environments, it uses M12 connectors for secure connections, ensuring reliable operation without environmental interference 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

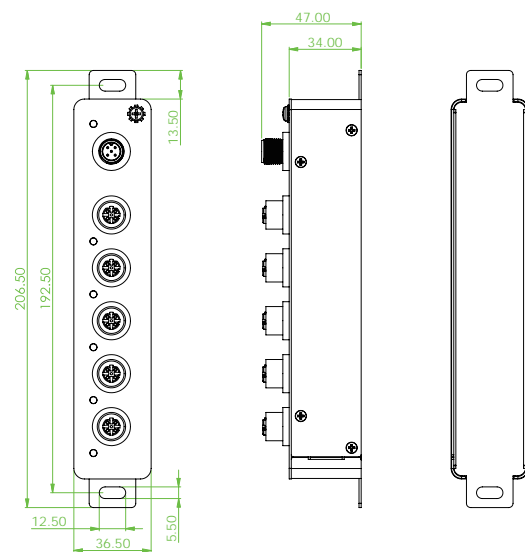
- Use M12 connector anti vibration and shock for vehicle, rolling stock, and railway applications
- Slim design
- DC input power 12/24/48VDC (8.4~60VDC)
- Wide operating temperature -40 ~ 75°C (ITP-500A-E)

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): 1Gbps (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 Connector	5x M12 D-code Female	
	10/100Base-TX Auto negotiation speed	
	Auto MDI/MDI-X function	
	Full/Half duplex	
Network Cable	UTP/STP Cat. 5e cable above	
	EIA/TIA-568 100-ohm (100meter)	
Protocols	CSMA/CD	
LED	Per unit: Power (Green)	
	Per port: Link/Active (Green)	
Reverse Polarity Protection	Present for power input	
Overload Current Protection	Supported	
Power Supply	DC 12/24/48V (8.4~60VDC) Input power	
Power Connector	5 Pin Male A-Code M12	

Power Consumption	Input Voltage	ITP-500A
	12VDC	0.8W
	24VDC	1.0W
	48VDC	1.9W
Operating Temperature	-40 ~ 75°C	
Operating Humidity	5% to 95% (Non-condensing)	
Storage Temperature	-40 ~ 85°C	
Housing	IP40 Rugged metal and fanless	
Dimensions	47 x 36.5 x 206.5mm (D x W x H)	
Weight	425g	
Installation Mounting	Wall mounting	
MTBF	2,315,383 Hours (MIL-HDBK-217)	
Certification		
EMC	CE	
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



Front View

Side View

Rear View

Ordering Information

Model Name	Total Port	UTP M12	Power Supply	Certification				Shock Vibration	Operating Temperature
		10/100Base-TX	12/24/48 VDC	EN50155 EN50121-4	EN45545-2	EN61000-6-2 EN61000-6-4	CE FCC	IEC61373	
ITP-500A-E	5	5	1	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