

ITP-500-67

EN50155 5x 10/100Base-TX IP67 Ethernet Switch

ITP-800-67

EN50155 8x 10/100Base-TX IP67 Ethernet Switch



The ITP-500-67 (ITP-800-67) Series non-managed Fast Ethernet switches provide 5(8)x 10/100Base-TX Fast Ethernet ports. This series of unmanaged Ethernet switches is designed for industrial applications in harsh environments. The ITP-500-67 (ITP-800-67) series switches Ethernet ports utilize M12 connectors to ensure tight, robust connections and guarantee reliable operation against environmental disturbances such as vibration and shock. The ITP-500-67 (ITP-800-67) series Ethernet switches are compliant with EN 50155, covering operating temperature, power input voltage, surge, ESD, vibration, and shock, thus making these switches suitable for industrial applications in vehicle, rolling stock and railways.

Features

- 8-Port 10/100Base-TX Ethernet Switch (ITP-800-E67, ITP-800-67)
- 5-Port 10/100Base-TX Ethernet Switch (ITP-500-E67, ITP-500-67)
- Use M12 connector anti vibration and shock for vehicle, rolling stock, and railway applications
- Supports flow control
- DIN rail or wall mounting installation
- Supports broadcast storm protection
- Supports auto-negotiation and auto-MDI/MDI-X
- Built in 2 bypass port (ITP-800-67, ITP-800-E67)
- Redundant dual DC input power 12/24/48VDC (8.4~60VDC)
- IP67 grade rugged housing for against water, dust, and oil
- Wide operating temperature -40~75°C (ITP-500-E67, ITP-800-E67)
- UL60950-1, CE, FCC, EN50155 and EN50121-4 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 IEEE802.3x Flow Control and Back Pressure	Operating Temperature	-10°C~60°C (ITP-500-67, ITP-800-67) -40°C~75°C (ITP-500-E67, ITP-800-E67)
Switch Architecture	Back-plane (Switching Fabric): 1Gbps (ITP-500-67, ITP-500-E67) Back-plane (Switching Fabric): 1.6Gbps (ITP-800-67, ITP-800-E67)	Operating Humidity	5% to 95% (Non-condensing)
Data Processing	Store and Forward	Storage Temperature	-40°C~85°C
Flow Control	IEEE 802.3x flow control, back pressure flow control	Housing	IP67 grade rugged housing
Provides Broadcast Storm Protection	Present	Weight	TBD
MAC Address Table	1 K	Installation Mounting	DIN rail or wall mounting
Packet Buffer Size	448Kbits	EMC	CE
Network Connector	5x M12 D-code Female (ITP-500-67, ITP-500-E67) 8x M12 D-code Female (ITP-800-67, ITP-800-E67) 10/100Base-TX auto negotiation speed Auto MDI/MDI-X function Full/Half duplex Built in 2 bypass port (ITP-800-67, ITP-800-E67)	EMI	FCC, FCC Part 15 Subpart B Class A CE EN 55022 Class A
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)	Railway Traffic Immunity for Heavy Industrial Environment	EN50155, EN50121-4 EN61000-6-2
Protocols	CSMA/CD	Emission for Heavy Industrial Environment	EN61000-6-4
LED	Per unit: Power 1 (Green), Power 2 (Green) (ITP-800-67, ITP-800-E67) Per unit: Power (Green) (ITP-500-67, ITP-500-E67) Per port: Link/Active (Green)	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 B 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 EN 61000-4-12
Reverse Polarity Protection	Present for power input	Safety	UL60950-1 (Pending)
Overload Current Protection	Present	Shock	IEC 61373
Power Supply	Redundant Dual DC 12/24/48V (8.4~60VDC) Input power (ITP-800-67, ITP-800-E67) DC 12/24/48V (8.4~60VDC) Input power (ITP-500-67, ITP-500-E67)	Freefall	IEC 60068-2-32
Power	5 Pin Male A-Code M12	Vibration	IEC 61373
		MTBF	TBD (MIL-HDBK-217)
		Warranty	5 years

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

Application

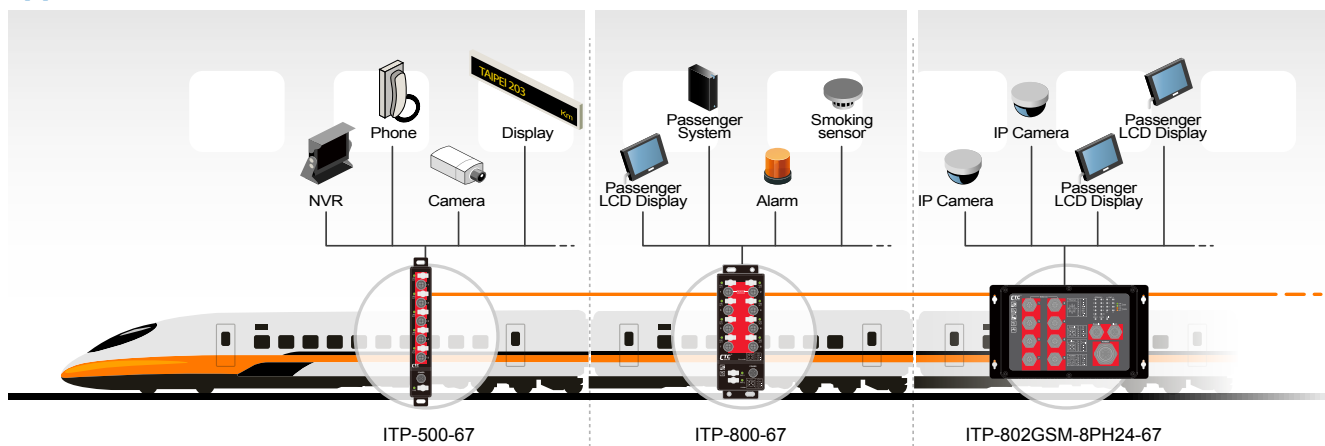


Figure 1 : ITP Series in Railway Application



Figure 2 : IP67 Protection



Figure 3 : Wide Range Temperature



Figure 4 : ITP Series for Industrial Automation



Figure 5 : Slim and Compact Size

Ordering Information

Model Name	Description
ITP-500-67	EN50155 5x10/100Base-TX IP67 Ethernet Switch ,-10°C~60°C
ITP-500-E67	EN50155 5x10/100Base-TX IP67 Ethernet Switch ,-40°C~75°C
ITP-800-67	EN50155 8x10/100Base-TX IP67 Ethernet Switch ,-10°C~60°C
ITP-800-E67	EN50155 8x10/100Base-TX IP67 Ethernet Switch ,-40°C~75°C

Accessories

DR-4524	Industrial Power, Input 85 ~ 264VAC, Output 24VDC, 48W, -10 ~ +50°C
MDR-40-24	Industrial Power, Input 85 ~ 264VAC, Output 24VDC, 40W, -20 ~ +70°C

Port Number Temperature
ITP - □ 00 - □ 67
 Example: ITP - 500 - E67