



## Description

The ITP-800A-8PH24 is PoE switches, metal housing IP40 protection, have 8 10/100Base-TX M12 D-code Ethernet ports, fanless and redundant power input. Designed for heavy industrial, vehicle and rolling stock applications, utilizing M12 connectors to ensure secure connections and reliable operation, and withstand environmental disturbances such as vibration and shock. 24VDC power input design, compatible with vehicle battery power supply, realizes PoE function through voltage boosting. EN50155 certification covers operating temperature, mains input voltage, surge, ESD, vibration and shock, making the switch suitable for vehicle, rolling stock applications.

## Features

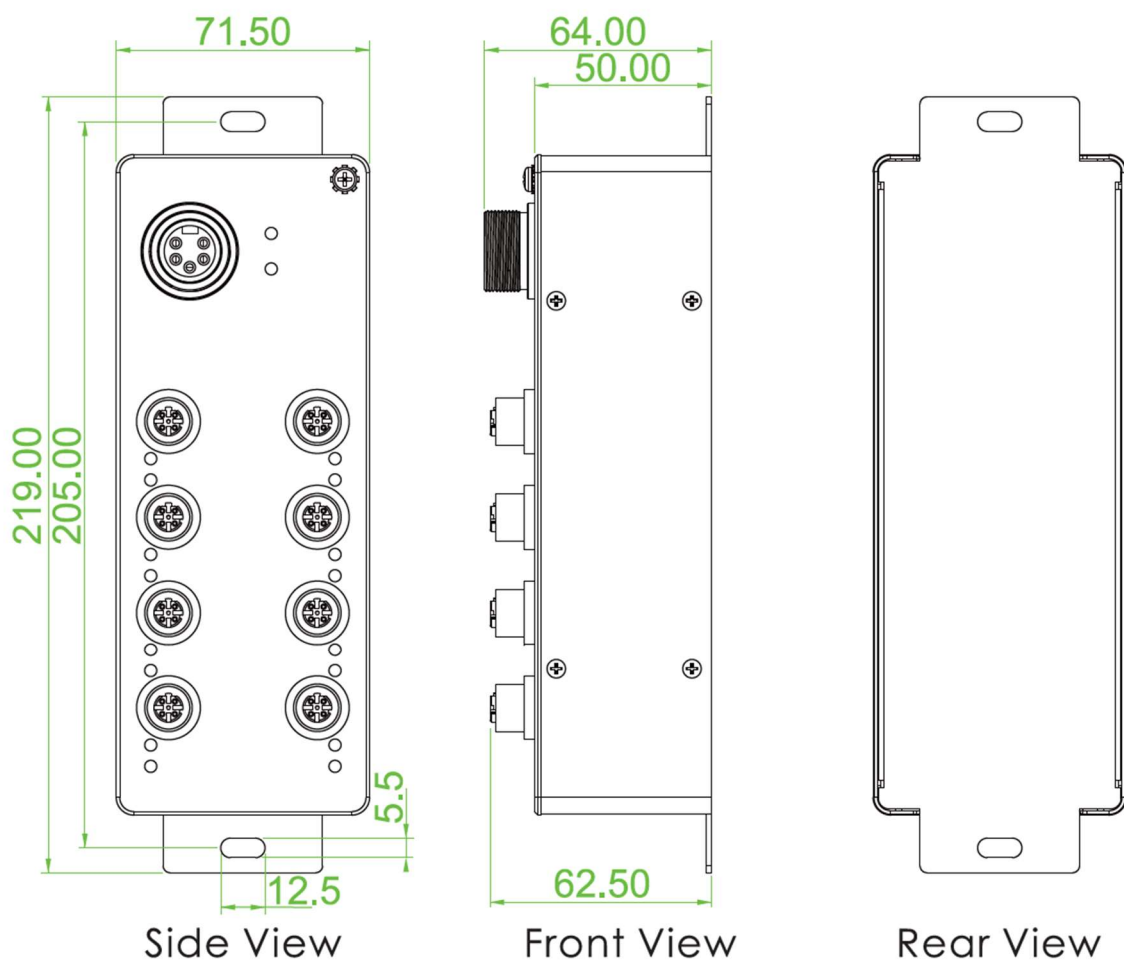
- ❑ Use M12/M23 connector anti vibration and shock for vehicle, rolling stock, and railway applications
- ❑ 24/48VDC (20~57VDC) redundant dual input power with built-in very high efficiency (97~98%) to boost PoE output voltage to 50VDC
- ❑ Regulated PoE output voltage (50VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100 meters
- ❑ Wide operating temperature -40~75° C (ITP-800A-8PHE24)
- ❑ CE, FCC, EN62368-1, EN51055, EN50121-4 and EN45545-2 for railway certified
- ❑ Industrial Grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified

## Specifications

Model	ITP-800A-8PH24																			
IEEE Standard	IEEE 802.3 10Base-T Ethernet																			
	IEEE 802.3u 100Base-TX Fast Ethernet																			
	IEEE 802.3x flow control, back pressure flow control																			
	IEEE 802.3af PoE (Power over Ethernet)																			
	IEEE 802.3at PoE+ (Power over Ethernet enhancements)																			
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	1 K																			
Packet Buffer Size	448Kbits																			
Network Connector	8x 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	System: Power 1 (Green), Power 2 (Green)																			
	Per: Link/Active (Green)																			
	PoE: ON (Green)																			
Reverse Polarity Protection	Present for power input																			
Overload Current Protection	Supported																			
PoE Standard	IEEE 802.3af, IEEE 802.3at																			
PoE Power Budget	Maximum PoE output power budget 120W (30W/per port), Regulated PoE output voltage at 50VDC																			
Power Supply	Provides 1x M23 (5-Pin, male) for redundant dual DC, 24/48V (20~57VDC) input power																			
	Built-in very high efficiency (97~98%) to boost PoE output voltage to 50VDC																			
	Regulate PoE output voltage (50VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100 meters																			
Power Consumption	<table><tr><td>Input Voltage</td><td>Total Power Consumption</td><td>Device Power Consumption</td><td>PoE Budget</td><td>Boost Efficiency</td></tr><tr><td>24 VDC</td><td>125W</td><td>3.6W</td><td>120W</td><td>98%</td></tr><tr><td>48 VDC</td><td>127W</td><td>4.3W</td><td>120W</td><td>97%</td></tr></table>					Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget	Boost Efficiency	24 VDC	125W	3.6W	120W	98%	48 VDC	127W	4.3W	120W	97%
	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget	Boost Efficiency															
	24 VDC	125W	3.6W	120W	98%															
48 VDC	127W	4.3W	120W	97%																
Operating Temperature	-10°C~60°C (ITP-800A-8PH24)																			
	-40°C~75°C (ITP-800A-8PHE24)																			
Operating Humidity	5% to 95% (Non-condensing)																			

Storage Temperature	-40°C~85°C
Housing	Rugged metal, IP40 protection housing, and fanless
Dimensions	64 x 71.5 x 219 mm (D x W x H)
Weight	860g
Installation Mounting	Wall mounting
MTBF	937,878 Hours (MIL-HDBK-217)
Warranty	5 years

### Mechanical Dimensions



Note : All information contained in this document is subject to change without notice.