

ITP-800A-8PH24

8x 10/100Base M12 with 8x PoE 120W, 24/48VDC

- ▲ 24/48VDC redundant dual input power
- Regulated PoE output voltage
- ▲ M12/M23 connector for UTP and Power
- ▲ EN50155, EN50121-4, EN61000-6-2, EN61000-6-4, EN62368-1, EN45545-2, CE and FCC certified















The EN50155 certified M12 PoE switches ITP-800A-8PH24, 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

| IEEE Standard | IEEE 802.3 | 10Base-T Ethernet | | | | |
|---------------------|--|--|--|--|--|--|
| | IEEE 802.3u | 100Base-TX Fast Ethernet | | | | |
| | IEEE 802.3x | Flow Control and Back Pressure | | | | |
| | IEEE 802.3af | PoE (Power over Ethernet) | | | | |
| | IEEE 802.3at | PoE+ (Power over Ethernet enhancements) | | | | |
| Switch Architecture | Back-plane (Switc | 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 | | | | | |



EN50155 PoE Switch

| | _ |
|-----|---|
| | _ |
| | _ |
| - 4 | |

| LED | System: Power 1 (Green), Power 2 (Green) | | | | | | | |
|--|--|-------------------------|--------------------------|------------|------------------|--|--|--|
| | Per: Link/Active (Green) | | | | | | | |
| | PoE: ON (Green) | | | | | | | |
| Reverse Polarity Protection | Present for pow | ver 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 | 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 (ITF -40°C~75°C (ITF | | | | | | | |
| Operating Humidity | 5% to 95% (Nor | | | | | | | |
| 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 | | | | | | | |
| Certification | | | | | | | | |
| EMC | CE (EN55024, EN | N55032) | | | | | | |
| EMI | FCC, FCC Part 1 | 5 Subpart B Class A | | | | | | |
| | CE | ' | | | | | | |
| Railway Traffic | EN50155, EN502 | 121-4 | | | | | | |
| Fire Protection of Railway Vehicles | EN45545-2 | | | | | | | |
| Immunity for Heavy Industrial Environment | EN61000-6-2 | | | | | | | |
| Emission for Heavy Industrial Environment | EN61000-6-4 | | | | | | | |
| EMS | 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 | | | | | | | |
| FIOLECTION 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 | | | | | | | |
| | EN61000-4-11 Voltage Dips | | | | | | | |
| Safety | EN62368-1 | | | | | | | |
| Shock | IEC 61373 | | | | | | | |
| Freefall | IEC 60068-2-32 | | | | | | | |
| A falle see his a se | IEC (1272 | | | | | | | |

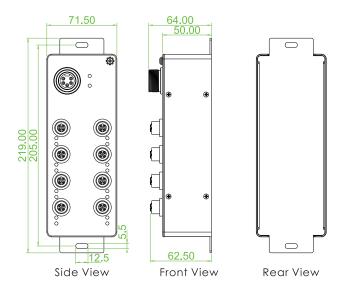


Vibration

www.ctcu.com / sales@ctcu.com

IEC 61373

Dimensions



Ordering Information •

| Model Name | Total | UTP Port M12 | PoE Port | PoE Total | Power Input | Certification | | | | Shock Vibration | Operating | |
|-----------------|-------|-------------------|-------------|-----------------|----------------|---------------|-----------|----------------------|----------------------------|--------------------|-----------|-------------|
| | Port | 10/100 Base-TX | IEEE802.3at | Power Budget | Redundant | EN45545-2 | EN62368-1 | EN50155 EN50121-4 | EN61000-6-2 EN61000-6-4 | CE, FCC | IEC61373 | Temperature |
| ITP-800A-8PH24 | 8 | 8 | 8 | 120W | 24/48VDC | V | V | V | V | V | V | -10~60°C |
| ITP-800A-8PHE24 | 8 | 8 | 8 | 120W | 24/48VDC | 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-M23F5-OPEN

M23 Female (5-Pin) to open wire, (AWG 16), IP67, 1 meter



For Power

P/N: M12D-M4

M12 D-code Male (4-Pin) connector, IP67



For FE UTP