ITP-800-8PH24



IP56, 8x FE M12 with 8x PoE 120W, 24/48VDC

- >> 24/48VDC Redundant Dual Power Input
- » Regulated PoE Output Voltage
- >> M12/M23 Connector for UTP and Power
- » EN50155, EN50121-4, EN61000-6-2, EN61000-6-4. EN62368-1, CE and FCC Certified
- > IP56 Protection for Water and Dust













The EN50155 certified M12 PoE switches ITP-800-8PH24, plastic housing IP56 protection, have 8x 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.

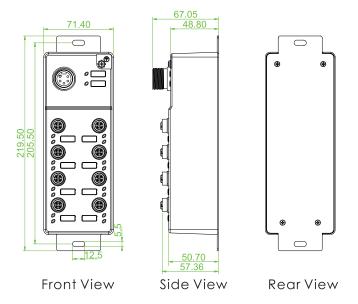
Features

- 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-800-8PHE24)
- CE, FCC, EN62368-1, EN50155 and EN50121-4 for railway certified
- Industrial Grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified

| Specifications | | | | | | |
|-----------------------|--|---|--|--|--|--|
| 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 (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 | 1K | | | | | |
| Packet Buffer Size | 448Kbits | | | | | |
| Network Connector | nnector 8x M12 D-code Female | | | | | |
| | 10/100Base-TX Auto negotiation speed | | | | | |
| | Auto MDI/MDI-X function | | | | | |
| | Full/Half duplex | | | | | |
| Network Cable | ole UTP/STP Cat. 5e cable above | | | | | |
| | EIA/TIA-568 100-ohm (100meter) | | | | | |
| Protocols | CSMA/CD | | | | | |

| | | 1100100100 | | | | | | | |
|--|---|-------------------------------------|---------------------------|------------|------------------|--|--|--|--|
| LED | System: Power 1 (Green), Power 2 (Green) | | | | | | | | |
| | Per: Link/Active (| Per: Link/Active (Green) | | | | | | | |
| | PoE: ON (Green) | | | | | | | | |
| Reverse Polarity Protection | Present for power input | | | | | | | | |
| Overload Current Protection | | | | | | | | | |
| PoE Standard | IEEE 802.3af, IEEE 802.3at | | | | | | | | |
| PoE Power Budget | | | | | | | | | |
| Power Supply | , | | | | | | | | |
| | 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 ~ 60°C (ITP | 8UU 8DH34/ | | | | | | | |
| Operating reinperature | -40 ~ 75°C (ITF | | | | | | | | |
| Operating Humidity | 5% to 95% (Non- | | | | | | | | |
| Storage Temperature | -40 ~ 85°C | | | | | | | | |
| Housing | | | | | | | | | |
| Dimensions | | | | | | | | | |
| Weight | 715g | | | | | | | | |
| Installation Mounting | Wall mounting | | | | | | | | |
| MTBF | 937,878 Hours (N | MIL-HDBK-217) | | | | | | | |
| Warranty | 5 years | | | | | | | | |
| Certification | | | | | | | | | |
| - | CE (EN55024, EN | N55032) | | | | | | | |
| EMI | FCC, FCC Part 15 Subpart B Class A | | | | | | | | |
| | CE | | | | | | | | |
| Railway Traffic | EN50155, EN50121-4 | | | | | | | | |
| 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 Susceptibility) | EN61000-4-3 (R | N61000-4-3 (RS) Level 3, Criteria A | | | | | | | |
| Protection Level | | | | | | | | | |
| | EN61000-4-5 (Surge) Level 3, Criteria B | | | | | | | | |
| | EN61000-4-6 (CS) Level 3, Criteria A | | | | | | | | |
| | EN61000-4-8 (P | FMF, Magnetic Field) Field Str | ength: 300A/m, Criteria A | | | | | | |
| | EN61000-4-11 Voltage Dips | | | | | | | | |
| Safety | EN62368-1 | <u> </u> | | | | | | | |
| | IEC 61373 | | | | | | | | |
| Freefall | | | | | | | | | |
| Vibration | IEC 61373 | | | | | | | | |
| | | | | | | | | | |

Dimensions



Ordering Information

| | | | ` | <u> </u> | | | | | | |
|----------------|---------------|-------------------|-----------------|------------------------------|-------------|----------------------|-----------|------------|----------------------------|--------------------------|
| Model Name | Total Port | UTP M12 | PoE | PoE Total Power Budget | Power Input | Certification | | | | |
| | | 10/100 Base-TX | IEEE 802.3at | | Redundant | EN50121-4 EN50155 | EN62368-1 | CE, FCC | EN61000-6-2 EN61000-6-4 | Operating Temperature |
| ITP-800-8PH24 | 8 | 8 | 8 | 120W | 24/48VDC | V | V | V | V | -10~60°C |
| ITP-800-8PHE24 | 8 | 8 | 8 | 120W | 24/48VDC | V | V | V | V | -40~75℃ |

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 100M 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 100M UTP