# 5 Port Industrial Ethernet Switch with 4 PoE Injector Ports

## Model EIRP305-T

B+B SmartWorx
Powered by ADVANTECH
www.advantech-bb.com

### PRODUCT FEATURES

- Five 10/100 Base-T Ethernet ports
- Four 15.W powered 802.3af end-point PoE ports
- 3000V EFT & 6000V ESD protection
- Wide operating temperature
- DIN rail or panel mounting
- Dual 48 VDC power inputs
- FCC, CE, UL

Model EIRP305-T is a five port unmanaged industrial Ethernet switch with four 802.3af (Alternative A) end-point Power-Over-Ethernet injector ports. As power sourcing equipment (PSE), these ports can be used to power 802.3af compliant powered devices (PD). This eliminates the need for a separate power line to each end device.

**High-Speed Transmissions:** Model EIRP305-T includes a switch controller that automatically senses transmission speed (10/100 Mbps). The RJ-45 interface also auto-detects MDI or MDI-X, eliminating the requirement for a crossover cable. Each port is buffered and supports store-and-forward protocol.

**Dual Power Input:** To reduce the risk of power failure, Model EIRP305-T provides two 48 VDC power inputs. If the power fails, the switch will automatically use the secondary power input. Also, if the power goes out, the corresponding P1 or P2 LED will go out and the Fault LED will light. The contacts for the alarm output will also open.

**Flexible Mounting:** The switch features a space saving IP30 metal enclosure that can be DIN rail or panel mounted.

**Transient Protection:** The power line input on Model EIRP305-T offers protection of up to 3,000 V EFT. The Ethernet ports offer up to 6,000 V ESD protection. These features make the switch reliable and suitable for use in harsh electrical environments.

**Wide Operating Temperature:** With an operating temperature of -40 to +75 °C (-40 to +167 °F), this switch is suitable for use in some of the harshest industrial environments that exist.

**Easy Troubleshooting:** There are two LED indicators for each port that display the link status and transmission speed. Three LED indicators for power (P1, P2 and Fault) show power status. FWD LEDs for each PoE port indicate if the switch is providing power to the end-point device. These indicators allow you to quickly diagnose and correct problems and ensure your network remains reliable.

### ORDERING INFORMATION

| MODEL NUMBER | DESCRIPTION |
|---|---|
| **EIRP305-T** | 5 Port Industrial Switch - with 4 PoE Ports |

### ACCESSORIES - sold separately

**MDR-100-48** - 48VDC, 96W, 2A DIN Rail Power Supply

**C5UMB3FBL** - Category 5e UTP Patch Cord, 1 m (3 ft), blue color




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## Model EIRP305-T

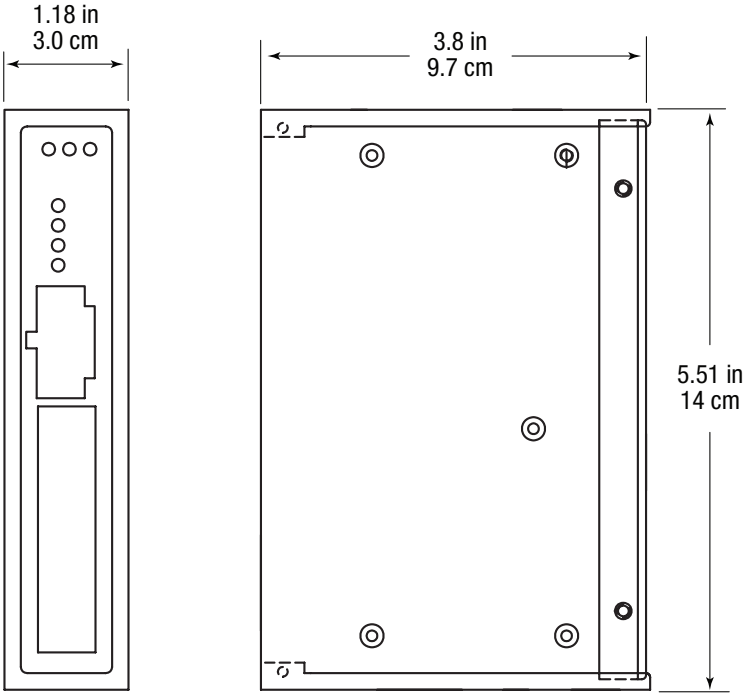
### SPECIFICATIONS

| | |
|---|---|
| **INTERFACE** | |
| RJ-45 Ports | 5 x 10/100BaseT, Auto MDI/MDI-X |
| ESD Protection | 6000V |
| PoE | 802.3af End-point Alternative A (4 Ports)<br>Positive (VCC+): Pins 1 and 2<br>Negative (VCC-): Pins 3 and 6<br>Data: Pins 1, 2, 3 and 6 |
| LED Indicators | P1 (Power 1), P2 (Power 2), Fault (Power Fault)<br>RJ-45 Ports have 2 LEDs to indicate LINK and Activity. FWD LEDs for PoE status. |
| **POWER** | |
| Input Voltage | Dual 48 VDC Inputs<br>Reverse Polarity Protection |
| Power Connection | Removable Terminal Block |
| Wire Size | 12 to 24 AWG |
| Power Use | 3.4 Watts (without PoE)<br>67 Watts (full load PoE) |
| Fault Output | 1 Relay Output – Normally Closed |
| EFT Protection | 3000 V EFT Protection |
| **ENVIRONMENTAL** | |
| Operating Temperature | -40 to +75 °C (-40 to +167 °F) |
| Storage Temperature | -40 to +85 °C (-40 to +185 °F) |
| Operating Humidity | 0 to 95% |
| **MECHANICAL** | |
| Enclosure | IP30 Metal Enclosure |
| Mounting | 35 mm DIN Rail or Panel Mount Attachments |
| Dimensions | 3.0 x 9.7 x 14.0 cm (1.2 x 3.8 x 5.5 in) |

| | |
|---|---|
| **MEANTIME BEFORE FAILURE** | |
| MTBF | 443153.5873 |
| Calc. Method | MIL 217F Parts Count Reliability Prediction |
| **NETWORK** | |
| Architecture | Back-plane (Switching Fabric): 1.0 Gbps<br>Throughput (Full-duplex): 1.488 Mpps@64bytes |
| Transfer Rate | 14880 pps Ethernet Port<br>148800 pps Fast Ethernet Port |
| Buffer | 448 Kbits |
| MAC Table | 2K |
| Other | Broadcast Storm Filtering<br>CSMA/CD |
| **APPROVALS, DIRECTIVES, STANDARDS** | |
| Approvals | FCC, CE<br>UL, UL File Number: E180881 |
| Directives | 2014/30/EU – Electromagnetic Compatibility Directive |
| Standards | EN 55024:2010 – Information Technology Equipment - Immunity Characteristics |
| IEC60068 | IEC60068-2-32 – Free Fall |
| | IEC60068-2-27 – Shock |
| | IEC60068-2-6 – Vibration |
| IEEE | IEEE 802.3. – 10Base-T Ethernet |
| | IEEE 802.3u – 100Base-TX and 100Base-FX Fast Ethernet |
| | IEEE 802.3x – Flow Control and Back Pressure |
| | IEEE 802.3af – Power over Ethernet |

### MECHANICAL DIAGRAM

Units - in/cm

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