

# **Stontronics Ltd**

### PoE Single Port Injector Range





T4971ST

T4972ST

### **Description:**

The T4971ST & T4972ST are compact and cost effective Power over Ethernet (PoE) Active Injectors. These are fully IEEE 802.3af (with detect function) compliant solutions for remote powering of Wireless LAN (WLAN) Access Points, Voice over IP phones and network security cameras. These PoE Active Injectors eliminate the need for an external power supply and its associated AC/DC power cabling, providing a compact, affordable, safe and reliable power solution over existing Ethernet infrastructure.

#### Features:

- Generates safe power over standard category 5 cabling
- Easy plug and play installation
- Saves time and reduces installation costs
- Investment protection of existing Ethernet switches and cabling infrastructure
- Surge voltage protection

- Safe powering of standard compliant, as well as legacy end-terminals
- Cost effective power distribution for WLAN access point installations
- Features a standard auto-sensing algorithm and provides a safe power to remote terminals
- 1 Year Warranty



| Output Characteristics      |  |            |  |  |  |
|-----------------------------|--|------------|--|--|--|
| Part Number                 | T4971ST                                | T4972ST    |  |  |  |
| No. of Ports                | 1                                      | 1          |  |  |  |
| Data Rates                  | 10/100Mbps                             | 10/100Mbps |  |  |  |
| Voltage                     | 48Vdc                                  | 50Vdc      |  |  |  |
| Max Load.                   | 0.35A                                  | 0.7A       |  |  |  |
| Power                       | 16.8W Max.                             | 35W Max.   |  |  |  |
| Min. Load                   | 0.1A                                   | 0.1A       |  |  |  |
| Load Regulation             | 2%                                     | 2%         |  |  |  |
| Line Regulation             | 1%                                     | 1%         |  |  |  |
| Ripple                      | 1%                                     | 1%         |  |  |  |
| Noise                       | 2%                                     | 2%         |  |  |  |
| Pin Assignment and Polarity | 4/5 (+), 7/8 (-)                       | See Below  |  |  |  |
| Protections                 | Short Circuit, Over Voltage & Overload |            |  |  |  |

| Input Characteristics |                                 |                                  |  |  |  |
|-----------------------|---------------------------------|----------------------------------|--|--|--|
| Input Voltage Range   | 90 - 264Vac                     |                                  |  |  |  |
| Frequency             | 47 - 63Hz                       |                                  |  |  |  |
| Input Current         | 0.4A @ 110 Vac   0.2A @ 220 Vac | 0.6A @ 110 Vac   0.35A @ 220 Vac |  |  |  |
| Efficiency approx.    | 70% min.                        | 80% min.                         |  |  |  |
| Mains Inlet Type      | IEC320/C6 (clover)              | IEC320/C14 (kettle)              |  |  |  |

| Safety, Mechanical and Other Characteristics |  |                      |  |  |  |
|--|--|----------------------|--|--|--|
| LED Indicators                               | AC Powered (Red)   Channel Powered (Green)   Channel Alarm (Red) |                      |  |  |  |
| Connectors                                   | Shielded RJ-45, EIA 568A and 568B                                |                      |  |  |  |
| Operation Temperature                        | 0 to 60°C  | -15 to 60°C          |  |  |  |
| Storage Temperature                          | -20 to 70°C  | -40 to 80°C          |  |  |  |
| Operation Humidity                           | 90% Max.   | 5 - 90%              |  |  |  |
| Cooling                                      | Free air cooling   |                      |  |  |  |
| Plastic Case Material                        | ABS  | PC                   |  |  |  |
| Plastic Case Dimension                       | 85*76*36 (L*W*H) mm  | 140*75*40 (L*W*H) mm |  |  |  |
| Weight                                       | 150g   | N/A                  |  |  |  |
| Safety and EMI                               | CE & FCC   |                      |  |  |  |
| All materials meet RoHS standard             |  |                      |  |  |  |



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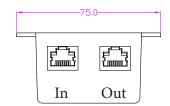
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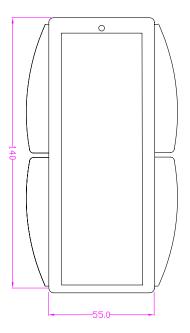
# T4972ST RJ-45 Connector & Pin-Out:

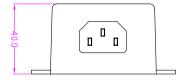
|     | RJ -45 Input (Data Only) |               | RJ -45 Output (Data & Power) |                  |
|-----|--------------------------|---------------|------------------------------|------------------|
| Pin | Symbol                   | Description   | Symbol                       | Description      |
| 1   | Rx+                      | Data Receive  | Rx+                          | Data Receive     |
| 2   | Rx-                      | Data Receive  | Rx-                          | Data Receive     |
| 3   | Tx+                      | Data Transmit | Tx+                          | Data Transmit    |
| 4   | NC                       | Not Connected | -Vdc_ return(+)              | Feeding power(+) |
| 5   | NC                       | Not Connected | -Vdc_return(+)               | Feeding power(+) |
| 6   | Tx-                      | Data Transmit | Tx-                          | Data Transmit    |
| 7   | NC                       | Not Connected | -Vdc                         | Feeding power(-) |
| 8   | NC                       | Not Connected | -Vdc                         | Feeding power(-) |

Note: pins 7 and 8(-Vdc) should not be shorted to ground.

# T4972ST Drawing:









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