



**T4971ST**



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### 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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Please Note: Image shown is representative of entire range. Individual PSU image &/or drawings or data sheets available on request.

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## T4972ST RJ-45 Connector & Pin-Out:

Pin	RJ -45 Input (Data Only)		RJ -45 Output (Data & Power)	
	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:

