



Tier 100SPD Series

Tier-1 POE-T4C8

Type 4, Class 8; Power-Over-Ethernet Surge Protection



The Southern Tier Technologies Tier-1 POE-T4C8 Surge Protective Device (SPD) is designed to work on applications where power is required over 4 pairs, and the power source outputs 90 watts. The SPD is ideally suited for high-energy surge protection for PTZ IP cameras with heaters, industrial automation equipment, VOIP systems or computers.

Why Install Tier-1 POE-T4C8 SPD?

High speed transmission lines are often a direct path for damaging transient impulses to enter a cabinet or a facility, placing important equipment and data at risk.

For camera systems, protect by placing a Tier-1 POE-T4C8 at both the “head-end” and at the equipment end.

Key Specs:

- **Operating Voltage:** 0 - 57VDC
- **Operating Current:** 2A
- **Watt/Pin:** Up to 100W
- **IEEE:** Class 8, Type 4
- **Clamping Voltage:** 54VDC
- **Surge Capacity:** 10 kA
- **Connection:** Input/Output: RJ45

Features:

- **Delivery over 4 Pairs**
- **Protection:** 8-Wire
- **Low insertion loss**
- **High Energy:** GDT/SAD Hybrid
- **Warranty:** 5 year



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General Technical Specifications	
Operating Voltage	0 - 57 VDC
Clamping Voltage	54 VDC
Operating Current (Per Pin)	2 A
C2 Total nominal Discharge Current (8/20us)	10 kA (8x20 us)
Frequency Range	0 to 1GHz
Insertion Loss	≤0.1
Transmission Speed	>1000Mbps
SPD Technology	GDT, SAD
Type of Connection IN/OUT	RJ45 (shielded)Female/ Female
Temperature Range	--40°C ~ +85°C (operating current adjusted to 40% @ +85°C)
Transmission standards	10BaseT/ 100BaseT/1000BaseT /1000BaseTX(CAT6)/POE
Meets the requirements	IEEE 802.3bt/ Type 4, Class 8, UL497b,
Pinning	1/2, 3/6, 4/5, 7/8for data;1&2/ 3&6,4&5/ 7&8 for POE
Modes of Protection	All lines (1-8) protected
Dimensions (in/mm)	4 x 1.5 x 1.2 (in) /103 x 40 x 30 (mm)
Weight (oz/kg)	5 oz (142 g)

Model #	
T1POET4C8	Surge Protection for: Type 4; 90W, Class 8 POE

Understanding POE: Classification Table				
Class Number	Power Sourcing Equipment (PSE) Output Power (W)	Powered Device (PD) Input Power (W)	Power Device (PD) Type	IEEE
0	15.4	12.95	1	IEEE802.3af
1	4	3.84		
2	7	6.49		
3	15.4	12.95		
4	30	25.5	2	IEEE802.3at
5	45	40	3	IEEE802.3bt
6	60	51		
7	75	62	4	
8	90	73		

