Series Surge Protector
for POE RJ45 Network Lines

The Series Surge Protector (SSP) for POE-enabled RJ45 Network Lines is designed, fabricated and tested according to the IEC1000-4-4 and IEEE802.3AT international standards.

Its internal structure can provide surge protection for both power and network signal lines. With users friendly connection, the product helps prevent damages to IP cameras, VoIP phones and other POE-enabled network data interface devices caused by electrostatic discharges, transient differences in ground potential, power surges and area lightning strikes. It can be easily installed on POE-enabled network systems without any voltage drops or losses of signal quality.

- POE-enabled network surge protection against transient voltage induced by interference from various electrical noises, etc. Making use of principle of discharging, clamping and over-voltage filtering, the product can effectively filter high-voltage pulses.

- Core components are selected based on high reliability, multi-level protection and depressed residual voltage.

- Low capacitance design, low insertion loss, excellent transmission performance, fast respond time and long life expectancy.

- Suitable for most POE-enabled 1-port or 8-port RJ45 network systems.
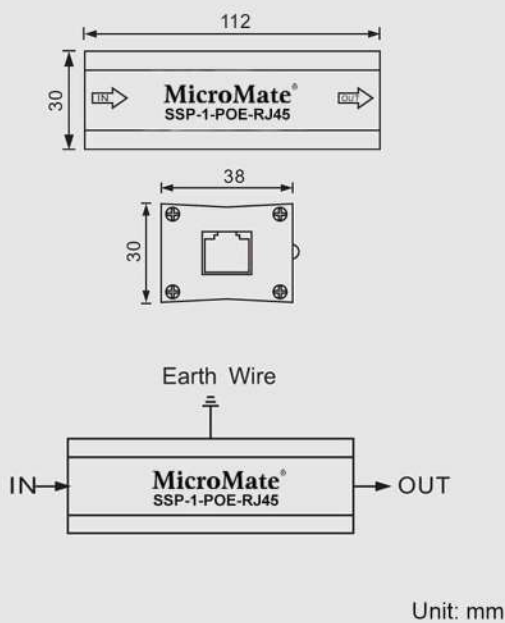
Technical Specifications

MODEL	SSP-1-POE-RJ45		SSP-8-POE-RJ45	
Protection Class	Power	Network Signal	Power	Network Signal
Operating Voltage (Un)	48V	5V	48V	5V
Rated Current	800mA		800mA	
Transmission rate (bit/s)		100/1000M		100/1000M
Impulse Voltage (10/700µs)	C-X:6KV; X-X(Data):2KV; X-X(Power):2KV		C-X:6KV; X-X(Data):2KV; X-X(Power):2KV	
Voltage Protection Level (Up)	C-X≤130V; X-X(Data)≤8; X-X(Power)≤100V		C-X≤130V; X-X(Data)≤8; X-X(Power)≤100V	
Insertion Loss		≤0.2dB		≤0.2dB
Response Time	≤1ns		≤1ns	
Protected Core Wire	1/2, 3/6, 4/5 and 7/8	1~8 Lines	1/2, 3/6, 4/5 and 7/8	1~8 Lines
Quantity of Protected Ports	1		8	
Interface Model	RJ45		RJ45	
Working Environment	Temperature -40°C~80°C; Relative Humidity <95%		Temperature -40°C~80°C; Relative Humidity <95%	
Dimension (W x D x H) mm³	38 × 112 × 30		42 × 114 × 168	
Weight	0.13KG		0.42KG	

Note: Due to the policy of continued product improvement, specifications are subject to change without notice.

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Product Installation

1. The unit is suitable for most POE-enabled RJ45 network system. It is installed in series with the incoming POE-enabled network cable.

2. With reference to the Installation Diagram, connect POE-enabled RJ45 network cable and Earth (PE) in accordance with the markings on the SSP.

3. The recommended sizes for the grounding wire are Grounding cable with BVR$\geq$2.5mm^2.

4. The grounding wire should be as short as possible and the grounding resistance should be less than 4 Ω in order to meet the lightning protection requirement.

Dimensions and Installation Diagram

Unit: mm

Dimensions and Installation Diagram

Unit: mm

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