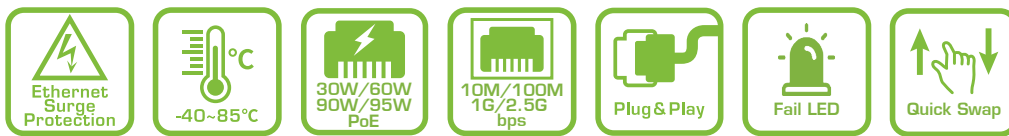


# SD-404 SD-424

802.3af/802.3at/802.3bt/UPoE  
1G/2.5Gbps Modular PoE Surge Protectors



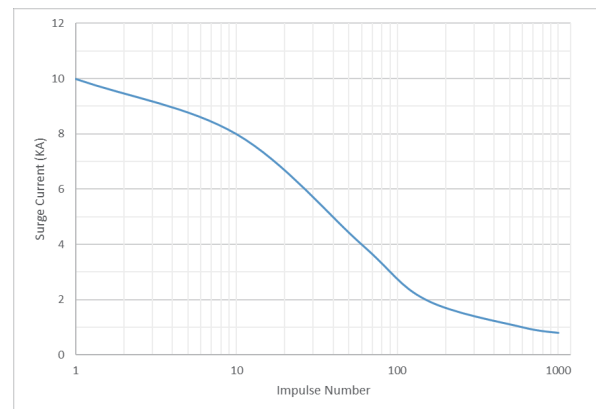
SD-404

The SD-404/SD-424 is a Modular PoE Surge Protector keeping PoE switches, PoE PDs, and any IP device safe from lightning & other forms of electrical interference such as power surges and spikes over networking cables. There are harden-graded PoE surge protector operating between -40°C and 85°C during harsh weather conditions & plug-and-play PoE surge protector defending the surge up to 10KA. The SD-404 is deployed beside PoE switches, inside junction boxes or power boxes. Besides general specifications of SD-404 protect outdoor IP devices such as IP cameras and wireless APs. The SD-424 is 19",1U rack mount chassis for central side use, protect indoor rack mount type PoE Switch.

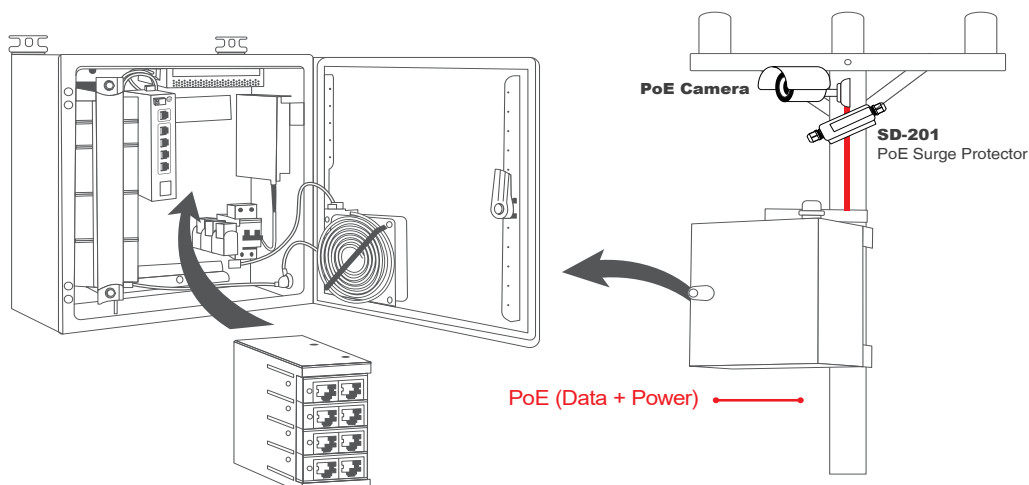
## Features

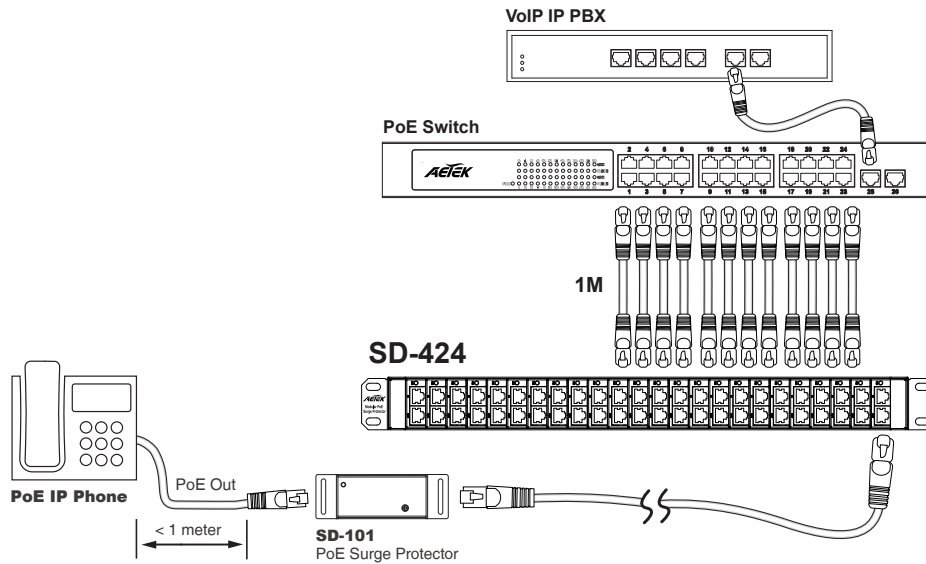
- Slide-in module design
- Quick swap when life time of single PoE surge module is expired
- Supports 10M/100M/1G/2.5G bps Ethernet
- Supports 802.3af / 802.3at / 802.3bt / UPoE
- Protects eight wires of networking cable including PoE
- Protects up to 10KA surge
- Failure Indicator LED
- Operating temperature from -40°C to 85 °C

## Surge Current vs Impulse Number



## Applications





## Specifications

	SD-404	SD-424
<b>Specifications</b>		
Channel	4	24
Pass Through Data Rates	10M/100M/1G/2.5G bps	10M/100M/1G/2.5G bps
Transmission Media	Cat. 5e,6 UTP/STP	Cat. 5e,6 UTP/STP
PoE Support	802.3af / 802.3at / 802.3bt / UPoE	802.3af / 802.3at / 802.3bt / UPoE
Max Discharge Current (8/20us)	10KA	10KA
Maximum Operation DC Voltage	60VDC	60VDC
Maximum Operation DC Current	1A for 2 pair, 2A for 4 pair, 95W maximum	1A for 2 pair, 2A for 4 pair, 95W maximum
Common Mode Protection Level (10/700us)	20KV	20KV
Differential Mode Protection Level (10/700us)	4KV	4KV
Clamping Voltage (Line to GND)	600V	600V
Clamping Voltage (Line to Line)	20V	20V
Insertion Loss @ 10MHz/100MHz	1db	1db
Return Loss @ 10MHz/100MHz	-20db	-20db
Response Time	5ns	5ns
<b>Mechanical Specifications</b>		
Dimension (WxHxD)	88 x 85 x 44mm	436 x 85 x 43mm
Weight	0.5KG	3KG
Connectors	RJ45 x 8	RJ45 x 48
<b>Environmental Specifications</b>		
Operating Temperature	-40°C~ 85°C (-40°F~ 185°F)	-40°C~ 85°C (-40°F~ 185°F)
Storage Temperature	-40°C~ 85°C (-40°F~ 185°F)	-40°C~ 85°C (-40°F~ 185°F)
Operating Humidity	5% ~ 95% non-condensing	5% ~ 95% non-condensing
<b>Certifications</b>		
EMC	CE, FCC, VCCI, C-Tick	CE, FCC, VCCI, C-Tick
Surge	ITU-T K.21 IEC-61643-21 IEC-61000-4-5 TIA-968-A (FCC Part68)	ITU-T K.21 IEC-61643-21 IEC-61000-4-5 TIA-968-A (FCC Part68)

## Related Products

Surge Protectors		
	<b>SD-401-M</b> <ul style="list-style-type: none"> <li>1-CH PoE Surge Modular for SD-404 / SD-424 Replace use</li> <li>20KV Surge Protector</li> </ul>	<b>SD-424-C</b> <ul style="list-style-type: none"> <li>19" 1U 24-CH Chassis</li> </ul>