SD series

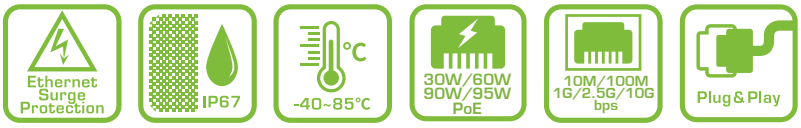
802.3af/802.3at/802.3bt/UPoE PoE Surge Protectors



SD-201/SD-202



SD-101/SD-102



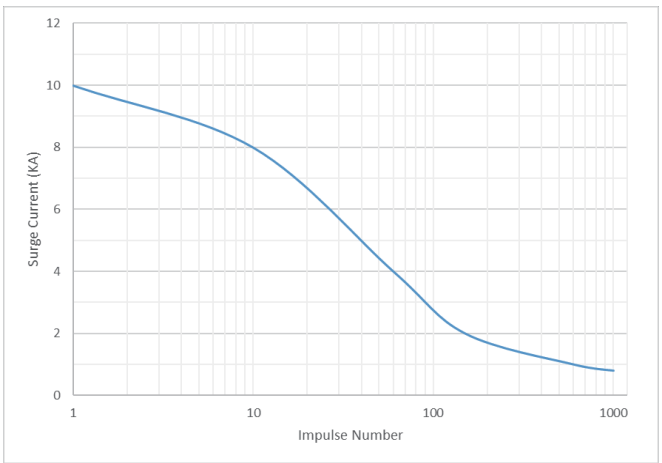
The SD series is a surge protector keeping PoE switches, PoE PDs, and any IP device safe from lightning & other forms of electrical interference such as power surges and spikes over networking cables. There are two sub-models classified as harden-graded surge protectors operating between -40°C and 85°C during harsh weather conditions & plug-and-play surge protectors defending the surge up to 20KV. The SD-101 is deployed beside PoE switches, inside junction boxes or power boxes. Besides general specifications of SD-101/SD-102, the SD-201/SD-202 has IP67/IK10 rated metal enclosure to protect outdoor IP devices such as IP cameras and wireless APs.

Features

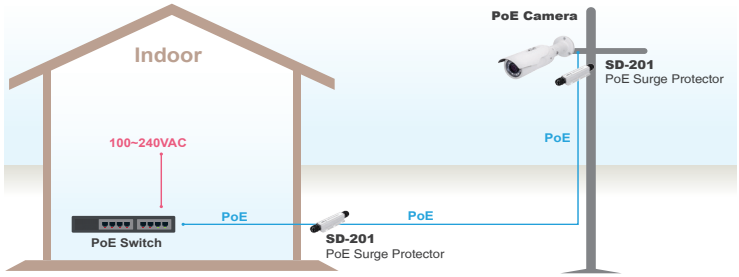
- Supports 10M/100M/1G/2.5G bps Ethernet (SD-101/SD-201)

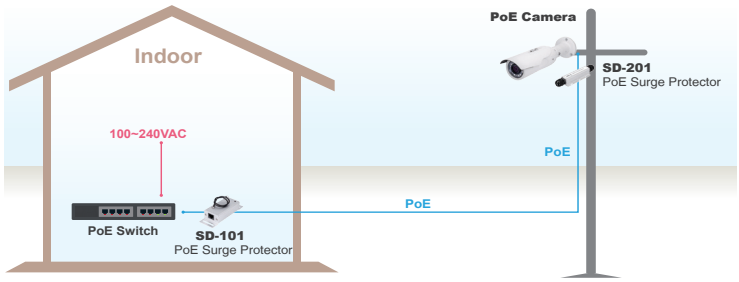
  Supports 10M/100M/1G/2.5G/10G bps Ethernet (SD-102/SD-202)
- Supports 802.3af / 802.3at / 802.3bt / UPoE
- Protects eight wires of networking cable including PoE
- Protects up to 20KV surge
- Failure Indicator LED
- IP67- rated metal enclosure (SD-201/SD-202 only)
- Operating temperature from -40°C to 85 °C

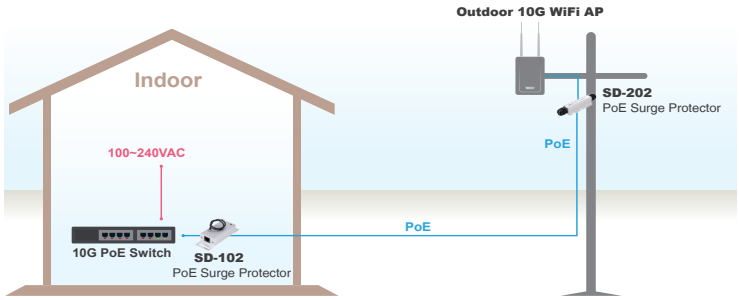
Surge Current vs Impulse Number



Applications







Specifications

	SD-101	SD-102	SD-201	SD-202
Specifications				
Number of Ports	1	1	1	1
Pass Through Data Rates	10M/100M/1G/2.5G bps	10M/100M/1G/2.5G/10G bps	10M/100M/1G/2.5G bps	10M/100M/1G/2.5G/10G bps
Transmission Media	Cat. 5e,6 UTP/STP	Cat. 5e,6 UTP/STP	Cat. 5e,6 UTP/STP	Cat. 5e,6 UTP/STP
PoE Supoort	802.3af / 802.3at / 802.3bt / UPoE	802.3af / 802.3at / 802.3bt / UPoE	802.3af / 802.3at / 802.3bt / UPoE	802.3af / 802.3at / 802.3bt / UPoE
Max Discharge Current (8/20us)	10KA	10KA	10KA	10KA
Maximum Operation DC Voltage	60VDC	60VDC	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	1A for 2 pair, 2A for 4 pair, 95W maximum	1A for 2 pair, 2A for 4 pair, 95W maximum
Line to Ground Protection Level (10/700us)	20KV	20KV	20KV	20KV
Line to Line Protection Level (10/700us)	4KV	4KV	4KV	4KV
Clamping Voltage (Line to GND)	600V	600V	600V	600V
Clamping Voltage (Line to Line)	20V	20V	20V	20V
Insertion Loss @ 10MHz/100MHz	1db	1db	1db	1db
Return Loss @ 10MHz/100MHz	-20db	-20db	-20db	-20db
Response Time	5ns	5ns	5ns	5ns
Mechanical Specifications				
Dimension (WxHxD)	80 x 40 x 25 mm	80 x 40 x 25 mm	186.2 x 50 x 32 mm	186.2 x 50 x 32 mm
Weight	0.18KG	0.18KG	0.27KG	0.27KG
Connectors	RJ45 x 2	RJ45 x 2	PG16 (RJ45) x 2	PG16 (RJ45) x 2
Environmental Specifications				
Weather Rating	-	-	IP67	IP67
Operating Temperature	-40°C~ 85°C (-40°F~ 185°F)	-40°C~ 85°C (-40°F~ 185°F)	-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)	-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	5% ~ 95% non-condensing	5% ~ 95% non-condensing
Certifications				
EMC	CE, FCC, VCCI, C-Tick	CE, FCC, VCCI, C-Tick	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)	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)

Ordering Information

Surge Protectors



SD-101
- Indoor 1 Port
- 10M/100M/1G/2.5G bps
- 20KV Surge Protector



SD-201
- Outdoor 1 Port
- 10M/100M/1G/2.5G bps
- 20KV Surge Protector

Surge Protectors



SD-102
- Indoor 1 Port
- 10M/100M/1G/2.5G/10G bps
- 20KV Surge Protector



SD-202
- Outdoor 1 Port
- 10M/100M/1G/2.5G/10G bps
- 20KV Surge Protector

Optional Accessories



CH-110-V2
- 19", 1U 8-bay rack mount chassis
- for SD-101/SD-102 use

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