PoE SURGE PROTECTOR

CCTV PoE SURGE PROTECTOR, 20KV

UT-8088

Scope of Application

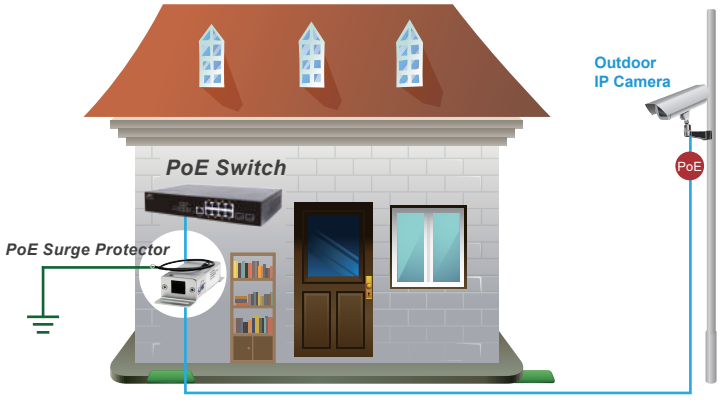
PoE Surge Protector is used for protection of the interface circuit of high speed Ethernet. It is connected in the input end of protected equipment. When the transmission line is struck by lightning, the lightning current is discharged to the earth through the lightning branches, and the lightning overvoltage is clamped within a proper range, thus the security of equipment being ensured.

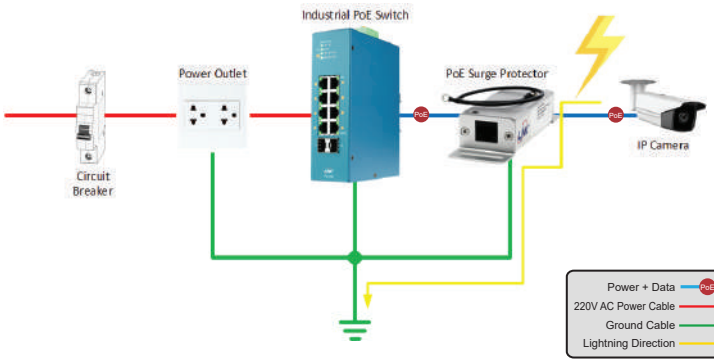
The PoE Surge Protector is Surge Protection Device (SPD) to provide signal/power path and surge protection capability, and it's specically designed to protect communication devices connected via Ethernet LAN from lightning surge entering through network cables. It employed our patented surge blocker with shunt devices and parallel devices to guarantee the safety of your device, even there is no secondary protection on your board. Additionally, the operation indicator will turn on while protector being out of life.

Features Highlight

- Gigabit PoE (IEEE 802.3af/at, 802.3bt type 3, 802.3bt type 4)
- Protect all 8 lines (CAT5e / CAT6 or Better)
- PoE power supply part with thermal protection
- Low insertion loss
- Multi-staged hybrid design
- Total Maximum discharge voltage (Vmax) 20KV (10/700μs)
- IEC 61000-4-5, IEC61643-21 and ITU-T K-Series
- Failure Indicator
- Compact size and easy installation
- FCC, CE and RoHS Compliant

Applications





Technical Data

Standards	
IEEE 802.3	10Base-T (Ethernet)
IEEE 802.3u	100Base-TX (Fast Ethernet)
IEEE 802.3ab	1000Base-T (Gigabit Ethernet)
IEEE 802.3af	Power over Ethernet (PoE)
IEEE 802.3at	Power over Ethernet Plus (PoE+)
IEEE 802.3bt Type 3	PoE++
IEEE 802.3bt Type 4	Higher-Power PoE
Hardware Specications	
Number of Ports	1 x RJ45 Input (10/100/1000Base-T)
	1 x RJ45 Output (10/100/1000Base-T)
Pass Through Data Rates	10/100/1000Mbps
Nominal Voltage	48V
Max. Operation DC Voltage	60V
Max Discharge Current (8/20μs)	8KA
Voltage Protection Level	≤90V
Common Mode Protection Level (10/700μs)	20KV (Line-Ground)
Differential Mode Protection Level (10/700μs)	4KV (Line-Line)
Insertion Loss	1db
Return Loss	-20db
Response Time	5ns
Max. Transient Surge Current (@10/1000μs)	300A

Mechanical and Environment	
Housing	Aluminum
Dimensions (W x H x D)	120 x 25 x 40 (mm)
Weight	180g
Mounting	Mounting screws
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C
Optering Humidity	5% to 95% RH (non-condensing)
Storage Humidity	5% to 95% RH (non-condensing)
Certications	
EMC	FCC & CE Approved
Surge	Surge Class II
	IEC-61000-4-5
	IEC61643-21
	ITU-T K-Series
Green Product	RoHS
Ordering Information	
UT-8088	CCTV PoE SURGE PROTECTOR, w/Short Circuit, 20 KV

Note :

** Specications subject to change without notice.*

Drawing