

# Outdoor GbE PoE+ Surge Protector

## GbE-Guard S1

### Features:

- 10/100/1000 MbPS
- All 4 pairs are protected by the reliable differential Gas Discharge Tube (GDT)
- Provide transient protection for the protected differential line pair to IEEE 802.3 af/at (Transmission) Mode A and B IEC 61000-4-5 (Lightning/Surge) 10 KA(8/20 $\mu$ s)
- PoE input voltage Vmax up to 60V
- PoE input current Imax up to 1A
- Shielded/Grounded RJ-45 Jacks
- Removable board design for easy installation and replacement
- Impact and weather resistant enclosure with locking hinged cover
- Mounting holes at the rear of the enclosure
- Cable grommet may be adjusted to cable size and are removable
- IEC 61643-21 compliant
- RoHS compliant



### Specifications:

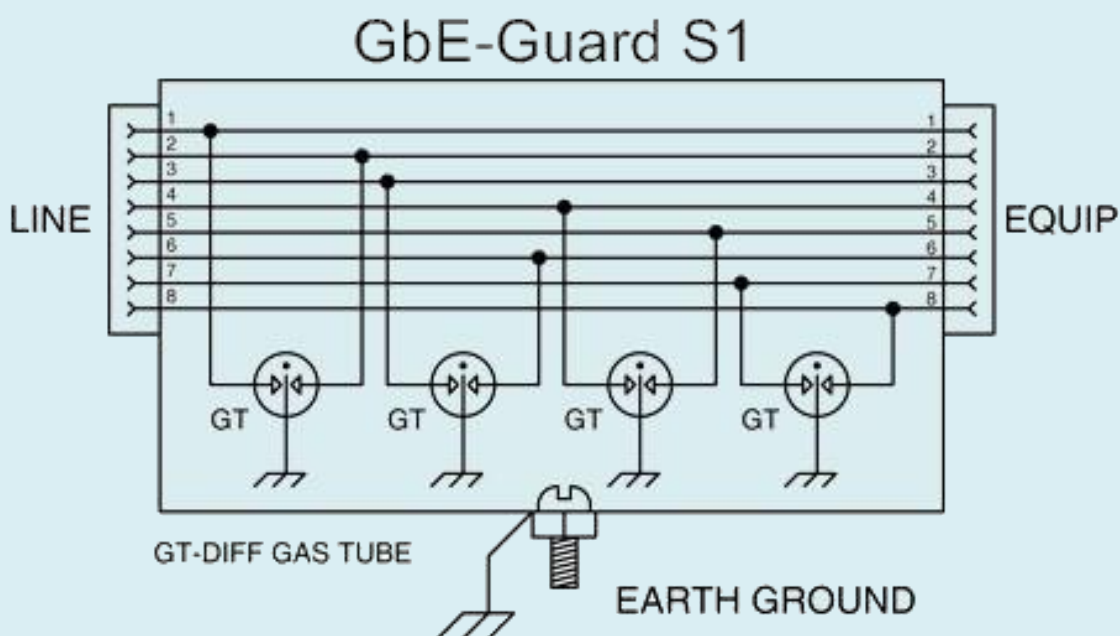
Clamping Voltage	Line-Ground: 72 Volts Line-Line: 72 Volts
Maximum Impulse Discharge Current(8/20 $\mu$ s)	10 KA
PoE Maximum Input Voltage Vmax	60 V
PoE Maximum Input Current Imax	1 A
Impedance	100 ohms
Protection Modes	Line-Line, Line-Ground
Standard Connectors	Shielded RJ-45 Female * 2
Enclosure Material	UV Stabilized Plastic
Enclosure/Cable Grommet Color	Gray/Black
Ground Lug	12 AWG Max.
Operating Temperature	-40°C (-40°F) to +80°C (+176°F)
Outside Dimensions (W*L*H)	78*103*49 mm
Weight:	105 g

## Comparison with UBNT ETH-SP

	GbE-Guard S1	ETH-SP
Type of Key Component (GDT)	3 Electrode*	2 Electrode
Protection Mode	Line-Line, Line-Ground	Line-Ground only
Maximum Impulse Discharge Current (8/20 $\mu$ s)	10 KA	5 KA
PC Board Flexibility	Removable	Fixed and Hidden
Certification for Lightning and Surge Protection Devices	IEC/EN 61643-21	?

**\*The advantage of 3 electrode GDT lies that equipotential bonding between differential line pair leads happens simultaneously and the energy is conducted faster and more steadily to the ground. No potential differences can happen!**

### Diagram



### Releted Products

- |              |   |
|--------------|---|
| ESWA-3310C6  | Indoor GbE PoE+ Lightning Surge Protector   |
| ESWA-3200C6x | Outdoor GbE High PoE+/ESD Surge Protector<br>(Outdoor Solution for UBNT AirFiber and Axis PTZ cameras)    |
| EM-330C6+    | Waterproof GbE High PoE+/ESD Surge Protector<br>(Outdoor Solution for UBNT AirFiber and Axis PTZ cameras) |