

10G 4 Port Ethernet Surge Protector

Features

- 10/100/1,000/10,000Mb (10G) Data Rate
- CAT5e, CAT6, CAT6a Compatible.
- 802.3af, 802.3at, 802.3bt and Passive PoE Compatible
- PoE, PoE+, UPoE, PoE++ and PoH Compatible
- Shielded RJ45 Jacks and Full Metal Housing
- Industrial strength operating range -40C to 85C
- Wall and DIN Rail mounting
- Complies with IEC 61000-4-5 Standard
- UL497B Listed



Applications

- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems
- Industrial Control Systems

Description

The TP-ESP-10Gx4 are a high performance Ethernet surge protector to help protect sensitive equipment from surges caused by lightning and grid power fluctuations. They protect to an impressive 10KA and are compatible with up to 10Gbps Ethernet networks. The surge protectors are also compatible with IEEE802.3af/at/bt PoE standards.

They have a full metal body for improved EMI suppression and have integral mounting feet and separate ground wire. Incorporating a rugged design, they are perfect for indoor or outdoor use inside a weatherproof enclosure. The TP-ESP-10Gx4 is compatible with 10/100/1,000M/10,000M POE systems up to 58V and can also be used successfully in pure data systems without PoE. Common Mode and Differential Mode Protection is provided on all 8 Ethernet wires. The device has 4 separate ports to protect 4 devices in the field. The ports have no polarity so ports can be assigned as desired. Each port on one end of the device is connected to the corresponding port on the other end of the device.

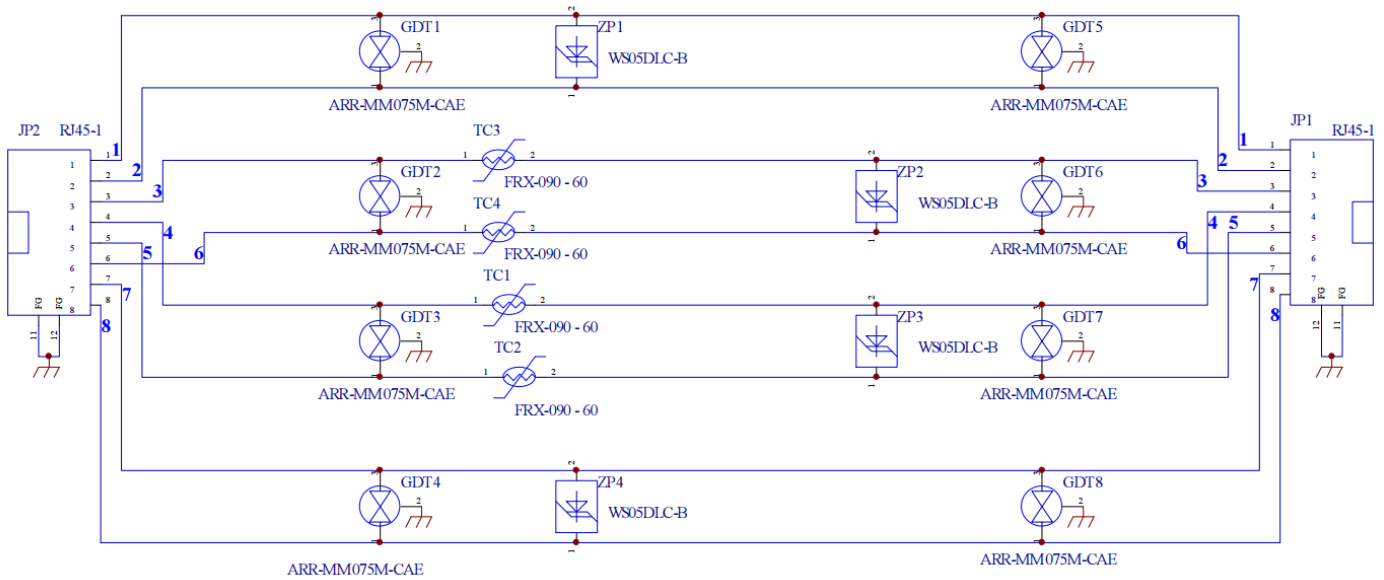
A ground wire is included to tie into the user's earth ground system. DIN Rail adapters are also included. Surge protectors should be mounted as close to the protected equipment as is feasible. Tycon offers a small outdoor enclosure to weatherproof the surge protector.

Specifications

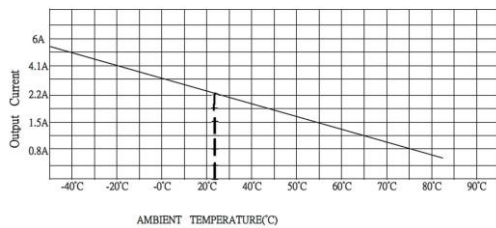
| | TP-ESP-10Gx4 |
|------------------------------------|---|
| Operating Voltage | POE < 58V |
| Operating Current | 2.2A (each pair) @ 25°C |
| Clamping Voltage | 75V POE (All 8 Pins) |
| Max Surge Discharge Current | 10KA (8/20us, 10 times with 3 mins interval) |
| Peak Pulse Current | 100A (10/1000us, 300 times with 3mins interval) |
| Protection Mode | Differential & Common Mode |
| Response Time | 0.65us typical |
| Insulation Resistance | >10,000 MOhm |
| Capacitance | < 3 pF |
| Data Rate | 10/100/1,000/10,000 Mbps (10Gbps) |

| | |
|---|-----------------------------------|
| Operating Temperature | -40 to +185°F (-40 to +85°C) |
| Storage Temperature | -40 to +185°F (-40 to +85°C) |
| Operating Humidity | 0% to 95% non condensing |
| Size (L x W x H) | 4.3 x 4.3 x 1" (110 x 110 x 25mm) |
| Weight | 13.6oz (385g) |
| Ground Wire | 14 AWG, 10.8" (275mm) long |
| Connectors | RJ45 Shielded Jacks |
| Ethernet Cable Compatibility | CAT5e, CAT6, CAT6a |
| IEC Standard | 61000-4-5 |
| UL Standard | 497B |
| MTBF (Mean Time Between Failure) | 1,414,941 Hours |
| Warranty | 3 Years |

Schematic



RATING TEMPERATURE LIMITS AND OUTPUT CURRENT RANGE



System Ordering:

TP-ESP-10Gx4 10Gbps 4 Port 10KA Network Lightning/ Surge Suppressor

For further information contact:

Tyconsystems.com



930W 14600S Ste 600
Bluffdale, UT 84065
PH: 801-432-0003
FAX: 801-618-4220