

ESP-2000

Gigabit Ethernet Surge Protector



Electrical surges can occur in a number of different ways and may potentially cause a great deal of damage to electrical devices that receive such a surge. These surges typically occur because of an excessive amount of electrical current running through a system. This can occur when a bolt of lightning strikes a home or business, and an Ethernet surge protector can help protect various devices from damage due to such a surge.

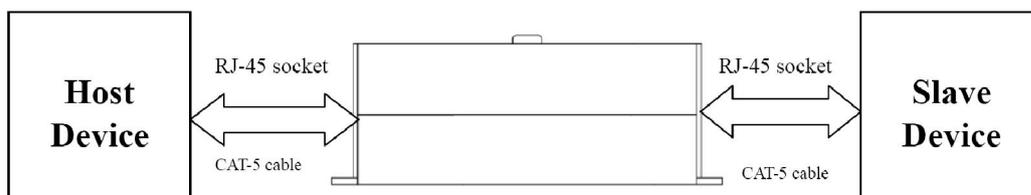
LevelOne ESP-2000 is designed to work on Category 5/5e/6 Fast and Gigabit Ethernet both transmission lines as well as PoE Ethernet applications. It is ideal kit to protect expensive equipment against surges and transients entering a building on exposed transmission lines.

Key Feature

- **Shielded RJ45 jack and metal housing for EMI noise suppression**
- **Bi-Directional Protection on standard and PoE Ethernet**
- **CAT5 / CAT5e / CAT6 compatible**
- **Supports Fast Ethernet and Gigabit Ethernet Speed**
- **Cast aluminium construction**
- **Integral mounting feet**
- **PoE Compatible**

Diagram

Installation / Application :



** The Protector is Bi-Directional so it's no issue in connection between Host and slave devices.

Technical Specification

<p>Hardware</p> <ul style="list-style-type: none"> • Operating Voltage Data 5V PoE 48V • Break Down Voltage (1) Data 90V Power 82V • Max. Surge Discharge Current Data 10KA Power 2.5KA (8/20uS) • Peak Pulse Current 100A (10/1000uS) • Pin Protected (2) All 8 pin protected • Protection Mode Differential & Common mode • Insulation Impedance > 1000Mohm • Max. Shut Capacitance (3) Power < 2100pF Data < 2.5pF • Data Rate 100/1000Mbps • Impulse Protected Voltage (4) < 500V • Response Time < 5nS • Ground Lug Wire 16AWG <p>Data over-current protection in one device</p> <ul style="list-style-type: none"> • Data port 90V, Power port 82V. • Pin to Pin & Pin to Ground • 4/5 pin to 7/8 pin & 4/5 pin to ground & 7/8 pin to ground. • 1/2 pin to ground & 3/6 pin to ground. • 1 pin to 2 pin over current protection, 3 pin to 6 pin over current protection <p>Over current protection turn-off point 180mA ~ 360mA</p> <ul style="list-style-type: none"> • Data < 2.5pF. • Data < 500Vdc (1/2 to ground, 3/6 to ground) • PoE < 135Vdc (4/5 to 7/8, 4/5 to ground, 7/8 to ground) 	<p>RJ45 Connected and Pin Out</p> <ul style="list-style-type: none"> • RJ-45 Output (Data & Power) RJ-45 Input (Data Only) • Pin Symbol Description Symbol Description • 1 Rx+ Data Receive Rx+ Data Receive • 2 Rx- Data Receive Rx- Data Receive • 3 Tx+ Data Transmit Tx+ Data Transmit • 4 -Vdc Feeding power(+) -Vdc Not Connected • 5 -Vdc Feeding power(+) -Vdc Not Connected • 6 Tx- Data Transmit Tx- Data Transmit • 7 -Vdc_return(+) Feeding power(-) -Vdc_return(+) Not Connected • 8 -Vdc_return(+) Feeding power(-) -Vdc_return(+) Not Connected • Pin 4,5 / 7,8 is POE Supply 48V Output . • Pin 1,2 / 3,6 is POE Data Output <p>Environment</p> <ul style="list-style-type: none"> • Operating Temperature -40°C ~ +85°C • Storage Temperature -40°C ~ +125°C • Operating Humidity 0 ~ 95% non-condensing <p>Certificate</p> <ul style="list-style-type: none"> • FCC • CE <p>Dimension & Weight</p> <ul style="list-style-type: none"> • 88 x 25 x 25mm • 70g
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Ordering Information

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