

# HDSURGE

## 1080p/4K HDMI Surge Protector

SIMPLIFIED  
MFG



The HDSURGE is an inline HDMI surge protector. The HDSURGE utilizes a single chip to eliminate phase shift issues common with multiple chipset configurations. The HDSURGE is designed to operate up to 4K2K with most set top boxes from cable and satellite providers. There are 13 Channels of ESD protection that utilizes a clamping/tank circuit design that protects the signal without degrading it. This is done by careful mapping of the flow of the TMDS signals while minimizing capacitance (less than 0.05pF differential). The design is superior to multiple chipset designs for this reason.

The HDSURGE also incorporates an on-chip current limited 5V monitoring circuit. This offers overload protection if the 5V output overloads by being shorted to ground. This circuit also has a flow protection scheme to prevent 5V overload by 5V "sharing". This prevents devices from being damaged when power supplies of other devices fail and draw 5V from an unprotected device.

Just by making HDMI connections it is possible to have an electrical discharge when making this connection. The HDSURGE protects the equipment from "human caused" discharge as well as protecting against larger electrical discharges that may be passed from source that is connected to external circuits or antennas as well.

The HDSURGE is a must on STB's especially when using an AVR as an HDMI switch. By placing the HDSURGE inline from STB's and to displays that may be installed in a high electrical discharge environment (particularly outdoors), you ensure that the AVR will be protected from external electrical discharge.

## Features:

- ESD Protection
- Minimum phase shift
- 5V Sharing Protection
- 3-Year Warranty

## Additional Devices:

- SCALE1
- AUDEX1
- DAC1
- TESTSIG