

Low Voltage Differential to High Voltage Differential Converter



LVD2HVD

The *LVD2HVD* is a low-voltage differential (LVD) to high-voltage differential (HVD) converter. Unlike some converters, the *LVD2HVD* is **true LVD** and does not degrade to a single-ended (SE) SCSI bus. The small format PCB is full speed Ultra Wide SCSI capable and designed for convenient integration into most common enclosures.

Features

Ultra SCSI capable.

Initiators and Targets may be placed on either side of the device.

Does not consume a SCSI ID.

Transparent operation, Independent of host software.

LVD side switches to Single-ended mode automatically if plugged into a SE bus.

Hot-Swap mode, where each side can be electronically isolated.

Integral Multimode LVD terminators that sense the LVD bus and switch to SE mode as appropriate.

Supplies terminator power out to each bus via a jumper and restable fuse.

SCSI bus signals are re-generated and re-timed.

Applications

To connect:

- ◆ HVD SCSI peripherals to an LVD or SE controller.
- ◆ LVD SCSI peripherals to an HVD controller so that the LVD bus remains true LVD.
- ◆ SE SCSI peripherals to an HVD controller.

Other uses:

- ▶ Creating bus segments that are electrically isolated from each other.
- ▶ Bus Extending, where an LVD SCSI bus can be lengthened to 100m by adding converters in serial fashion.
- ▶ Enabling Server Clustering.

Specifications

Transfer Rate

40 Mbytes/sec - Ultra SCSI

Physical Size

50mm x 147mm

Temperature Range

0°C to 60°C

Power Requirements

+5V ±5% 5Watts typical. Standard 3.5" miniature power connector

Connectors

Standard 68-way SCSI III female

Informative LED's Indicate:

Presence of termpower for each bus

Bus error - where a device of the wrong type is plugged into either bus

SCSI bus activity

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