

Dell Server SCSI Connections

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Revision History

Revision	Date	Author	Comments
A	May 2002	A.Blignaut / J.Delgado	Initial release
B	Jan 2003	A.Blignaut	Added 2600 server support

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1. DELL POWEREDGE 2500 / 2600 SERVERS

1.1 Integrated SCSI Port

The integrated SCSI port in a Dell PowerEdge 2500 / 2600 server is auto switching - it switches between Single Ended (SE) and Low Voltage Differential (LVD). This SCSI port is fitted with one 68-pin High Density (HD) SCSI connector. Use this SCSI connection with the new Low Voltage Differential MCE boards and with output devices that only require one SCSI connection, such as the News 150.

Note: Some servers may not have this integrated port.

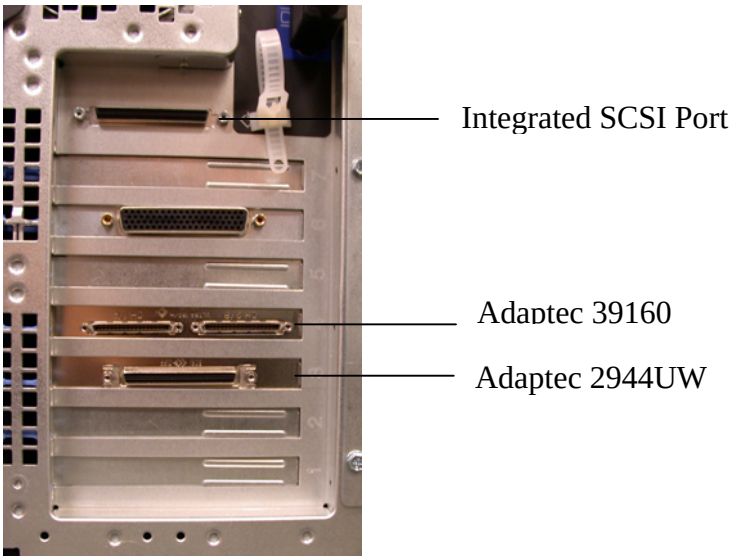


Figure 1: Dell 2500 SCSI Adapters

1.2 Adaptec 39160 Ultra 160 LVD/SE SCSI card

The Adaptec 39160 Ultra 160 LVD/SE SCSI card is a dual channel SCSI card with two Very High Density (VHD) connectors. The Adaptec 39160 auto-switches between Single-Ended and LVD SCSI signals.

Use this card where two Low Voltage Differential SCSI connections are needed, for example, the News 200 output device.

Note: The Adaptec 39160 SCSI adapter requires special drivers.

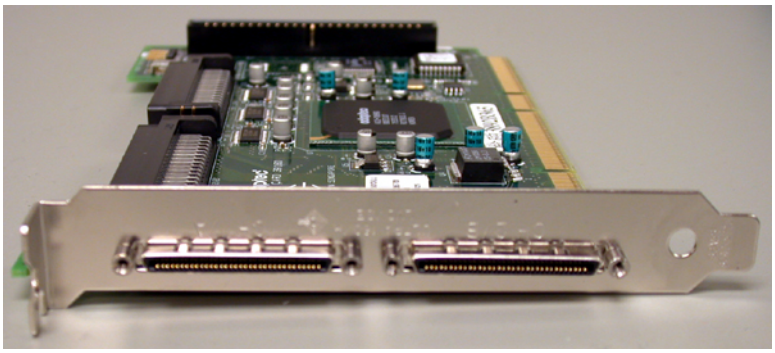
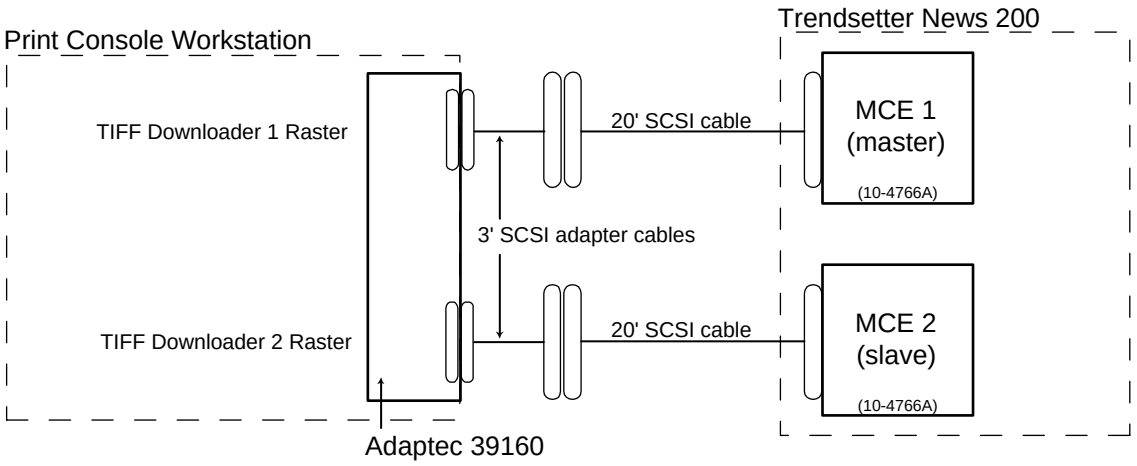


Figure 2: Adaptec 39160

To connect the Adaptec 39160 to a Creo output device, an additional 3' 68-pin SCSI adapter cable must be used between the card and the output device SCSI cable (see SCSI Adapter Cable). The diagram below shows the SCSI connections between an Adaptec 39160 and a dual MCE device like the News 200.



1.3 Adaptec 2944UW HVD SCSI card

Use the Adaptec 2944 SCSI card to connect to MPE based machines that require High Voltage Differential (HVD) connections, for example, the News 75 output device (some earlier MCE based machines also required HVD connections – MCE #10-1466A). If a 2944 SCSI card is not available, use a Paralan LVD to HVD converter that plugs into either the integrated auto switching SCSI port or the Adaptec 39160 card + adapter cable.

The Adaptec 39160 SCSI cards have a higher performance than the older Adaptec 2944UW cards. Wherever possible, use a Adaptec 39160 card, an adapter cable, and a Paralan LVD to HVD converter instead of the Adaptec 2944UW.

Note: The Adaptec 2944UW is reaching end-of-life and may no longer be available.

2. SCSI ADAPTER CABLE

Use this cable to connect Very High Density (male) SCSI connectors to High Density (female) SCSI connectors. P/N 16-3907.

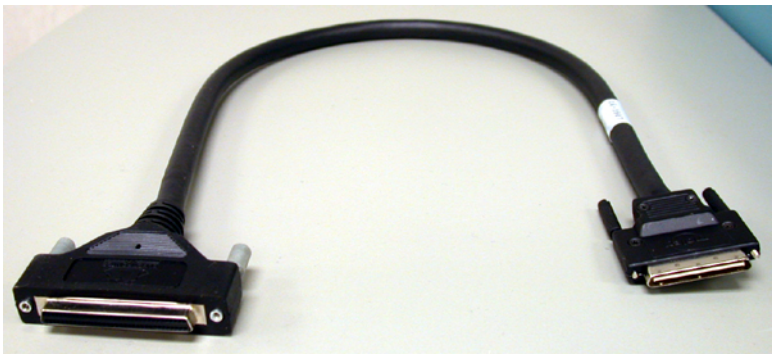


Figure 3: SCSI adapter cable

3. PARALAN LVD TO HVD CONVERTER

Use the Paralan Converter when you need to connect a Low Voltage Differential SCSI device to a High Voltage Differential SCSI device.



The stand-alone Model MH16 includes a power supply for standard power line operation.

Figure 4: Paralan Converter

4. DELL OPTIPLEX GX150 SERVERS

The Dell Optiplex GX150 workstation does not have an integrated SCSI Port. An Adaptec 2944UW or an Adaptec 39160 must be installed to connect to the output device.