

Technical Bulletin: # TB-00086-00-070514**Product Affected: Dell Server, PE 860****Description: Installing the 3 Port IEEE 1394b Firewire card in the DELL PE 860 server****Date of Issuance: 25 May 2007**

Purpose

This technical bulletin # TB-00086-00-070514 informs you how to install the 3 Port IEEE 1394b Firewire card in the Dell PE 860 server.

Solution

Perform the following steps to install the 3 Port IEEE 1394b Firewire card.

Download the ubCore32_050207.exe driver file:

1. Visit <http://www.unibrain.com/Products/DriverAPI/ubcore.html>.
2. Click on the Download tab.
3. Enter your Name, e-mail and Country in the Personal Information section.
4. Select ubCore™ 5.13 (or later version) for Windows 2000/XP/2003 Server/Vista 32 bit under the ubCore versions (For end users who need to connect 1394b devices and webcams) section.
5. Click Proceed to Download.
6. Click ubCore™ 5.13 (or later version) 1394a - 1394b drivers for Windows 2000/XP/2003 Server/Vista 32 bit to download and save the driver file.

Installing the 3 Port IEEE 1394b Firewire card:

1. Turn off the Dell PE 860 Server.
2. Using the manufacturer's instructions install the Firewire card. Refer to the ubCore.pdf on the driver disk provided for more information.

NOTE: Do not install the ubCore drivers provided on the driver disk.

3. Turn on the Dell PE 860 Server.
4. Verify that the system has detected the 1394b Firewire card.

NOTE: To verify the hardware installation, click Start > Control Panel. Double

click System and select the Hardware tab then Device Manager. You should see a new device entry:

IEEE 1394 Bus Host Controller
Texas Instruments OHCI Compliant IEEE 1394 Host Controller

Install the ubCore32_050207 Driver:

1. Double click the downloaded ubCore32_050207.exe file and follow the directions to install the Firewire driver.
2. Verify that the system has updated the Firewire driver.

NOTE: To verify the driver installation, click Start > Control Panel. Double click System and select the Hardware tab then Device Manager. You should see that the entry for the Firewire card has changed to the following:

IEEE 1394 Bus Host Controller
Startech.com 1394b Firewire 800 PCI card

3. Close all open windows and Restart the Dell PE 860 Server.

Connect the Extended Storage Module (ESM):

1. Ensure that the Dell PE 680 Server and ESM unit is turned off.
2. Connect the Firewire cable from the ESM unit to the newly installed Firewire card and turn on the Dell PE 860 Server.
3. When the Dell PE 860 Server is powered up turn on the ESM unit and wait for the green LED on the front panel to illuminate.
4. The Dell PE 860 server will detect the new hardware and display the Windows Found New Hardware dialog.

NOTE: If this does not display click Start > Control Panel and double click Add Hardware to open the Add Hardware Wizard.

- a. Select to add a new SBP2 Compliant IEEE 1394 device using the Add Hardware Wizard.
- b. Select Yes, I have already connected the hardware.
- c. Select SBP2 Compliant IEEE 1394 device.
- d. Select to install from a list or specific location.
- e. Browse to C:\Program Files\ubCore\Drivers\SBP2. (ubsbp2.inf). You will be prompted to add two (2) SBP2 Compliant IEEE 1394 Device(s) per each attached ESM.

5. Verify that 4 Firewire disks appear under the Disk Drive device listing per each attached ESM unit.

What happens if the SBP2 Compliant IEEE 1394 Device shows up in my device list with a conflict?

- Right click on the device and select to update the driver. Select to update automatically. It should find the driver and no longer appear in the device listing with a conflict.

Should I have multiple listings of the SBP2 Compliant IEEE 1394 Device?

- Yes, two devices for each ESM attached to the Firewire card.

How many drives should appear in the Control Panel\System\Hardware\Device Manager\Disk Drives?

- Four Disk Drives per ESM.

Continuous Improvement Statement

As with all processes defined by the American Dynamics Technical Services Group, this document is intended to be a work in progress. Further refinements and suggestions are welcome and should be sent in writing to the owner/author of this document as listed below.

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