



Important information about installing the Myrinet Cluster Expansion Card for IBM @server BladeCenter

This Technical Update supplements the information in your Myrinet Cluster Expansion Card for IBM @server BladeCenter™ documentation. See the *Myrinet Cluster Expansion Card for IBM @server BladeCenter Installation Guide* for instructions for installing the Myrinet Cluster Expansion Card for IBM @server BladeCenter in your blade server.

Important:

1. To make sure that you install the most recent versions of software to support the Myrinet Cluster Expansion Card, the *Support CD* described in the *Myrinet Cluster Expansion Card for IBM @server BladeCenter Installation Guide* is *not* included with the Myrinet Cluster Expansion Card. You must download all supporting software from the IBM Support Web site at <http://www.ibm.com/pc/support/> and follow the instructions that are in the *Myrinet Cluster Expansion Card for IBM @server BladeCenter Installation Guide*.
2. You must perform the procedures described in this update *before* installing the Myrinet Cluster Expansion Card in your blade server. The blade server will not work correctly if the Myrinet Cluster Expansion Card is installed before these procedures are performed.

Before installing the Myrinet Cluster Expansion Card for IBM @server BladeCenter in your blade server, make sure that the BladeCenter firmware versions are as listed in the following procedure, make sure that the blade server basic input/output system (BIOS) settings are correct, and download and install the latest available cluster device drivers for your operating system. The Myrinet Cluster Expansion Card will not work without the correct BIOS settings or device drivers and might not work correctly with earlier firmware versions.

BladeCenter firmware updates are available from <http://www.ibm.com/pc/support/>. The cluster device drivers for operating systems that support the expansion card are available from Myrinet Software and Customer Support at <http://www.myri.com/scs/>.

Verifying and updating BladeCenter firmware

Complete the following steps to verify the firmware build IDs using the management-module Web-based user interface:

1. Start the management-module management and configuration program. For more information, see the *IBM @server BladeCenter Management Module User's Guide* on the IBM® *BladeCenter Documentation CD* that comes with the BladeCenter unit.
2. In the BladeCenter Management Module configuration window, in the **Monitors** section of the navigation pane, click **Firmware VPD**.
3. If you are installing a Myrinet Cluster Expansion Card in an HS20 Type 8678 blade server, complete the following steps to verify the firmware build IDs. Otherwise, continue with step 4. The HS20 Type 8678 blade server requires special configuration switch settings when a Myrinet Cluster Expansion Card is installed in it. See the *Myrinet Cluster Expansion Card for IBM @server BladeCenter Installation Guide* for detailed instructions.
 - a. Note the number of each blade bay that contains an HS20 Type 8678 blade server that has a Myrinet Cluster Expansion Card installed in it.
 - b. Scroll to the **Blade server Firmware VPD** section. Make sure that the build IDs for each blade bay with an HS20 Type 8678 blade server where a Myrinet Cluster Expansion Card will be installed are as follows:
 - BIOS build ID is BRE25AUS or later.

- Diagnostics build ID is BRYT16AUS or later.
 - Blade System Management Processor build ID is BR8T17A or later.
- c. Note all blade bays and firmware types that must be updated.
 4. Scroll to the **Management Module Firmware VPD** section. Make sure that the build ID for the Main Application is BRET53A or later.
 5. If any firmware levels are not as specified, continue with step 6. Otherwise, you are finished with this procedure.
 6. If any firmware build ID is not as specified, go to <http://www.ibm.com/pc/support/> to download the most current firmware for your management module or server type. Download the firmware using the instructions in the readme file.
 7. Update the firmware for the management module and blade servers using the BladeCenter Management Module configuration window. Complete the following steps to install firmware updates:
 - a. In the BladeCenter Management Module configuration window, in the section of the navigation pane for the device being updated, click **Firmware Update**. Use the **Blade Tasks** section to update blade server firmware and the **MM Control** section to update management-module firmware.
 - b. In the Update Firmware window for each section, click **Browse** to locate the firmware files you downloaded. Perform the file selections and updates using the instructions in the readme file.
 - c. Click **Update**; then, click **Continue**.

Verifying blade server BIOS settings

Complete the following steps to verify the BIOS settings for your blade server using the Configuration/Setup Utility program. These settings must be set to the following values on each blade server that will have a Myrinet Cluster Expansion Card installed in it, regardless of the blade server model type.

1. Turn on the blade server and watch the monitor screen.
2. When the message Press F1 for Configuration/Setup appears, press F1.
3. From the Configuration/Setup Utility program main menu, select **Devices and I/O Ports**.
4. In the **Devices and I/O Ports** menu, make sure that **Serial Port A** is set to **Port 3F8, IRQ 8**.
5. From the **Devices and I/O Ports** menu, select **Remote Console Redirection**.
6. From the **Remote Console Redirection** menu, verify the following settings:
 - **Remote Console Active** is set to **Enabled**
 - **Remote Console Active After Boot** is set to **Enabled**
7. Press Esc twice to return to the Configuration/Setup Utility program main menu.
8. Exit the Configuration/Setup Utility program, saving the changes.

Downloading and installing cluster device drivers

Go to <http://www.ibm.com/pc/support/> to determine the name and version number of the latest cluster device drivers that are available for your operating system; then download the applicable device drivers from the Myrinet Software and Customer Support Web site at <http://www.myri.com/scs/>. A link to the request form for downloading software and download instructions is provided at this Web site.

Install the cluster device drivers, following the standard procedure for your operating system. Any special instructions for performing this installation are included with the download. You must install the latest cluster device drivers on each blade server that will have a Myrinet Cluster Expansion Card installed on it, regardless of the blade server model type.

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