



Digital Vision Network

5000 Series

BCM™ Motherboard BIOS

Upgrade Instructions

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(805) 522-5555
www.johnsoncontrols.com

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DVN 5000 BCM™ MOTHERBOARD BIOS UPGRADE INSTRUCTIONS

This document describes how to update the DVN 5000 Rackmount Series BCM™ motherboard BIOS using the **DVN-BIOS** upgrade package to help prevent potential hard drive failures resulting from the following power issues:

- Brown out conditions causing power management issues
- Improper shutdown (for example, switching off the DVN using the power supply switch)

NOTE

Perform this upgrade only on DVN 5000 Rackmount Series servers running software Version 2.9 or earlier. DVN 5000 servers running Version 2.10 do not require the BIOS patch. Version 2.10 is scheduled for release in late 2011.

Upgrading the BCM motherboard BIOS consists of the following series of steps:

- Identifying the motherboard manufacturer (see page 1)
- Installing the BIOS patch (see page 2)
- Verifying the BIOS patch was successfully installed (see page 4)

MOTHERBOARD MANUFACTURER IDENTIFICATION

Determine whether the DVN 5000 has a BCM or Intel® motherboard. To do this, on the back of the DVN, verify the number of network ports.

- A DVN 5000 with **two** network ports has a **BCM** motherboard.
- A DVN 5000 with **one** network port has an **Intel** motherboard.

NOTE

*Do **not** attempt to install the patch on DVN 5000 servers with an Intel motherboard. Install the patch only on DVN 5000 servers with a BCM motherboard.*

BIOS PATCH INSTALLATION

► **To install the BCM motherboard BIOS patch:**

1. On the DVN 5000 RemoteControl Main screen, click **Shutdown**.



The Shutdown button only appears when running RemoteControl locally at the server.

2. Click **Yes** when the warning message appears.
3. Once the DVN shuts down, insert the USB flash drive into one of the DVN 5000's available USB ports.
4. Restart the DVN.
5. During the boot up process, press and hold the **<Delete>** key on your keyboard to enter the BCM motherboard BIOS.
6. When prompted to enter the BIOS password, enter P001 and press **<Enter>**. The password is case sensitive.



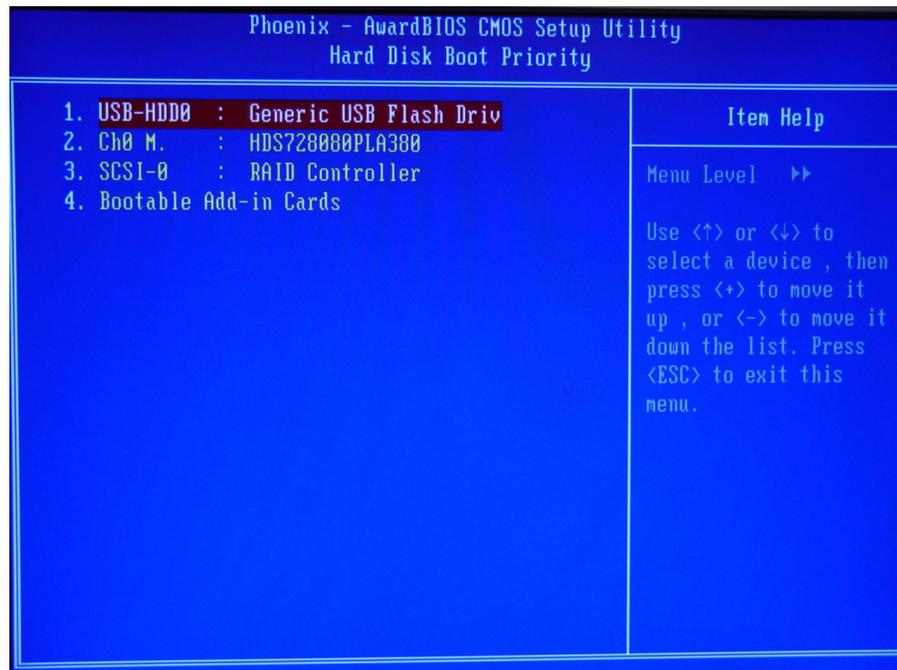
7. Use the arrow keys to select **Advanced BIOS Features** and press **<Enter>**.

8. Select **Hard Disk Boot Priority** and press **<Enter>**.



9. Confirm that the USB flash device is the first device the DVN uses to boot, and press **<F10>**.

If the BIOS does not list the USB flash device in the first position, use the (+) and (-) keys on your keyboard's numeric keypad to move it to the first position. Then, press **<F10>**.



NOTE

The USB flash drive description may vary.

10. Press <Enter> when asked to **Save to CMOS and exit (Y/N)? Y.**

The BIOS update selection screen appears.

```
Which utility would you like to run? (Press 1-3).
1 DVN RAIDCORE Flash Utility BIOS for 2.8+
2 DVN LSI Flash Utility BIOS for 2.8+
3 DVN BCM Motherboard Flash Utility BIOS 2.8+
4 Quit
Choose an option[1,2,3,4]?_
```

11. Press **3** on your keyboard.
12. When the confirmation message appears, press any key to continue.

IMPORTANT

Do not switch off the DVN while the system installs the BIOS patch.

Once the system completes the BIOS patch installation, the DVN automatically restarts.

13. Remove the flash drive from the DVN.
14. Click the **Login** button when it becomes highlighted and verify that you can successfully log on to the DVN.

BIOS PATCH INSTALLATION VERIFICATION

► **To verify the patch was successfully installed:**

1. Restart the DVN.
2. During the boot up process, press and hold the <Tab> key on your keyboard. The current BCM motherboard BIOS version appears briefly.
3. Verify the system displays **BIOS Version 2.10C**.

```
Phoenix - AwardBIOS v6.00PG, An Energy Star Ally
Copyright (C) 1984-2008, Phoenix Technologies, LTD
BC945G #70282f V2.10C - JCI
CPU Type@Freq. : Intel(R) Core(TM)2 @ 1.80GHz (200x9.0)
Memory Testing : 3398592K OK + 8M shared memory
CPU Brand Name : Intel(R) Core(TM)2 CPU 4300 @ 1.80GHz
31E BIOS Supported
EM64T CPU
Memory Frequency For DDR2 533 (Dual Channel Mode Enabled)
Memory Frequency For DDR2 533 (Dual Channel Mode Enabled)
```