

ASUS P6X58D-E Technical Updates

This is an information update for the user guide that comes with your motherboard package.

4.4.5 Marvell RAID utility

The onboard Marvell 9128 SATA 6Gb/s controller allows you to create a RAID 0 or RAID 1 array using two SATA hard disk drives. Refer to Chapter 2 of your motherboard user manual for the exact location of the Marvell 9128 SATA 6Gb/s connector.

To enter the Marvell utility, press **<Ctrl> + <M>** during POST.



All existing data on the hard disk drives will be erased when creating or deleting a RAID array. Ensure that you have back up all your data in your hard disk drives before making any change to the drive status.

```

Marvell BIOS Setup (c) 2009 Marvell Technology Group Ltd.
-----
-Topology-                               Information
HBA 0: Marvell 0
├ Virtual Disks
└ Free Physical Disks
  └ PD 0: ST3160812AS
    PD 8: ST3160812AS
Vendor ID       : 1B4B
Device ID      : 91A3
Revision ID    : B1
BIOS Version   : 0.0.0000
Firmware Version: 2.1.0.1410
PCIe Speed Rate : 5.0Gbps
Configure SATA as: IDE Mode

-----
- Help
Marvell RAID on chip controller.
ENTER: Operation  F10: Exit/Save  ESC: Return
  
```

Create a RAID Array

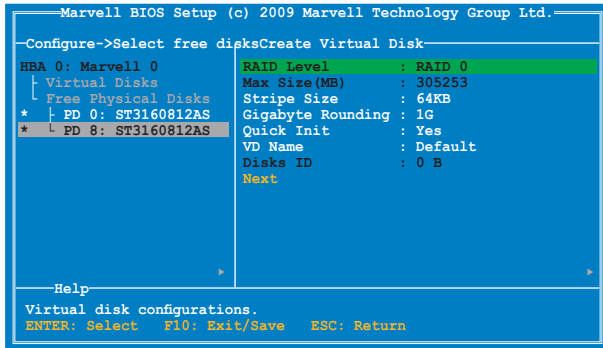
1. Move the selection bar to **HBA 0: Marvell 0** and press **<Enter>**.
2. Select **Configuration Wizard** and press **<Enter>**.

```

Marvell BIOS Setup (c) 2009 Marvell Technology Group Ltd.
-----
-Configure->Select free disks-
HBA 0: Marvell 0
├ Virtual Disks
└ Free Physical Disks
  * PD 0: ST3160812AS
    PD 8: ST3160812AS
Port ID        : 0
PD ID         : 0
Type          : SATA PD
Status        : Unconfigured
Size          : 152626MB
Feature Support: MCQ 3G 48Bits
Current Speed : 3G
Model         : ST3160812AS
Serial        : 9LS0F4HL
FW Version    : 3.AAE

-----
- Help
Use space bar to select the free disks to be used in the array.
ENTER: Operation  SPACE: Select  F10: Exit/Save  ESC: Return
  
```

3. Press **<Space>** to select the hard drives to be included in the RAID array. An asterisk (*) appears in front of the selected hard drive. After selecting all the drives needed for the RAID array, press **<Enter>** to continue.



4. Use the up or down arrow key to move the selection bar and press <Enter> to configure further RAID settings.

RAID Level: Select a RAID Level. Configuration options: [RAID 0] [RAID 1]

Stripe Size: Specifies the size of single data block on the virtual disk. In general, a larger stripe size is recommended for applications requiring large data transfers such as audio, video, and graphics. A smaller stripe size is better for applications with content in much smaller size, such as e-mails and documents.

Configuration options: [32K] [64K]

Gigabyte Rounding: In the event of a single physical disk failure in a RAID 1 virtual disk, Gigabyte Rounding allows the replacement physical disk to be of a size slightly smaller than the existing physical disk. The capacity of the rebuilt virtual disk equals to the size of the smaller physical disk included in the RAID 1 array. The configuration options represent the tolerance value of drive capacity difference.

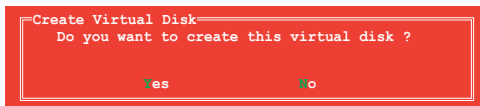
Configuration options: [None] [1G] [10G]

Quick Init: Enables or disables quick initialization of the virtual disk.

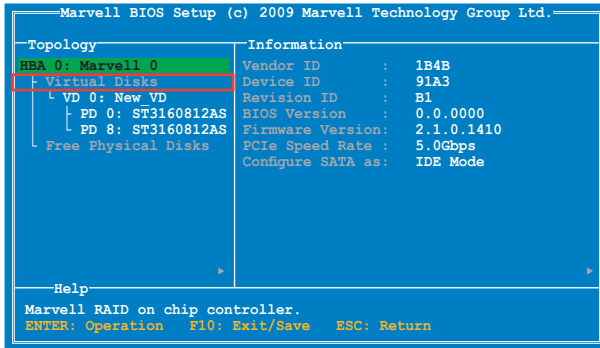
Configuration options: [Yes] [No]

VD Name: Enter a name with 1–10 letters (no special characters) for the RAID array.

5. Move the selection bar to **Next** and press <Enter>. The following warning message appears:



Press <Y> to create the RAID array, or press <N> to cancel. The new RAID array appears under Virtual Disks, as shown in the image below.



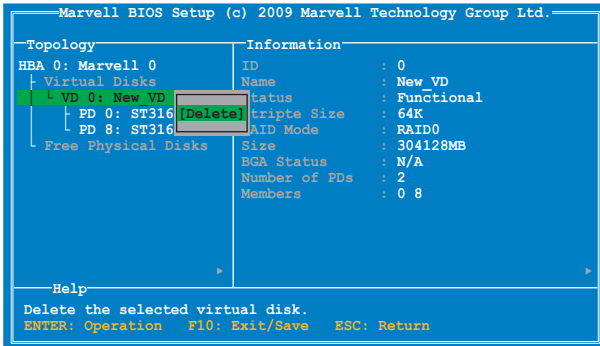
- Press <F10>. The following warning message appears:



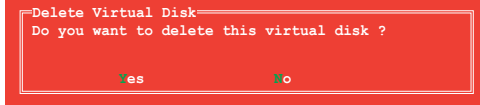
Press <Y> to save the RAID setting and exit the Marvell RAID utility.

Delete an existing RAID Array

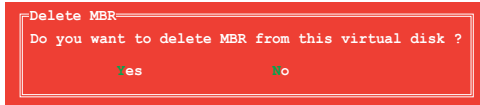
- Select the RAID array to delete and press <Enter>. Select **Delete** and press <Enter>.



2. The following warning message appears:



Press <Y> to delete the selected RAID array. The following warning message appears:



Press <Y> to delete the Master Boot Record (MBR) from the selected RAID array.

3. Press <F10>. The following warning message appears:



Press <Y> to save the RAID setting and exit the Marvell RAID utility.

EC Declaration of Conformity

ASUS
Ingenieur-Innovations-Technik

We, the undersigned,

Manufacturer:	ASUSTeK COMPUTER INC.
Address, City:	No. 150, LI-FERD, PEITOU, TAIPEI 112, TAIWAN R.O.C.
Country:	TAIWAN
Authorized representative in Europe:	ASUS COMPUTER GmbH
Address, City:	HARKORT STR. 21-23, 40880 RATINGEN
Country:	GERMANY

declare the following apparatus:

Product name :	Motherboard
Model name :	P6X58D-E

conform with the essential requirements of the following directives:

2004/109/EC-EMC Directive

<input checked="" type="checkbox"/> EN 60951-1:2006+A1:2007	<input checked="" type="checkbox"/> EN 60951-1:2006+A1:2007+A2:2008
<input checked="" type="checkbox"/> EN 61000-3-2:2008	<input checked="" type="checkbox"/> EN 61000-3-3:1998+A1:2001+A2:2005
<input checked="" type="checkbox"/> EN 55015:2001+A1:2003+A2:2006	<input checked="" type="checkbox"/> EN 55022:2007

1999/5/EC-R&TTE Directive

<input type="checkbox"/> EN 302 328 V1.7 (12006-06)	<input type="checkbox"/> EN 301 489-1 V1.6.1 (2005-04)
<input type="checkbox"/> EN 302 328 V1.7 (12006-06)	<input type="checkbox"/> EN 301 489-2 V1.6.1 (2005-04)
<input type="checkbox"/> EN 302 440-2 V1.2 (2008-03)	<input type="checkbox"/> EN 301 489-4 V1.3.1 (2002-08)
<input type="checkbox"/> EN 301 511 V9.0.2 (2003-03)	<input type="checkbox"/> EN 301 489-7 V1.3.1 (2005-11)
<input type="checkbox"/> EN 301 988-3 V3.2 (2007-05)	<input type="checkbox"/> EN 301 489-9 V1.4.1 (2007-05)
<input type="checkbox"/> EN 301 883 V1.4 (2005-03)	<input type="checkbox"/> EN 301 489-24 V1.4.1 (2007-06)
<input type="checkbox"/> EN 50360:2001	<input type="checkbox"/> EN 302 326-2 V1.2.2 (2007-06)
<input type="checkbox"/> EN 50360:2001	<input type="checkbox"/> EN 302 326-3 V1.2.2 (2007-06)
<input type="checkbox"/> EN 62311:2008	<input type="checkbox"/> EN 301 357-2 V1.3 (2006-04)
<input type="checkbox"/> EN 50365:2002	<input type="checkbox"/> EN 301 357-2 V1.3 (2006-04)

2006/95/EC-LVD Directive

<input type="checkbox"/> EN 60954-1:2001+A11:2004	<input type="checkbox"/> EN 60966:2002+A1:2006
<input type="checkbox"/> EN 60950-1:2006	<input checked="" type="checkbox"/> EN 60950-1:2006+A11:2009

2009/125/EC-EP Directive

Regulation (EC) No. 1275/2008	Regulation (EC) No. 279/2009
<input type="checkbox"/> EN 62301:2005	<input type="checkbox"/> EN 62301:2005
<input type="checkbox"/> EN 62301:2005	<input type="checkbox"/> EN 62301:2005

CE (EC conformity marking)

Position : **CEO**
Name : **Jerry Shon**

Signature : _____

Declaration Date: **Mar. 19, 2010**
Year to begin affixing CE marking: **2010**

1 5 6 0 6 2 3 4 2 2 0 0