

2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID

User Manual Model: UGT-IS602R

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www.vantecusa.com

Features and Benefits

- PCI-Express 2.0 x 1 (Compatible with PCI-Express 1.0)
- Supports communication speeds of 6.0Gbps, 3.0Gbps, and 1.5Gbps
- Hot plug and Hot Swap
- Support Native Command Queuing (NCQ)
- Supports Port Multiplier FIS based switching or command based switching
- Support ATA and ATAPI commands
- Compatible with SATA 6G, 3G and 1.5G Hard Drives
- Support RAID0 function: RAID 0, RAID 1 (only support SATA hard drives on SATA port)
- Supports Windows® XP/Server 2003/2008/Vista/7 (32/64 bit)

UGT-IS602R

Specifications

Model:	UGT-IS602R
Bus interface:	PCI-Express 2.0 x 1
Ports:	2 x Internal SATA 6G ports (Backward compatible
	with SATA 3.0Gbps & 1.5Gbps)
	1 x Internal IDE/PATA port
Dimension:	119 x 90 x 18mm
OS Support:	Windows® XP/2003/Vista/2008/7 (32/64 bit)

System Requirements

- Windows® XP/2003/Vista/2008/7 (32/64 bit)
- Computer with one available PCI-e slot

(CD-Rom Drive May Be Needed For Drivers)

Package Contents

- 1 x 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID
- 1 x Driver CD
- 1 x User's Manual
- 1 x IDE/PATA Cable

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• 2 x SATA Data Cable

Layout

Before Installing the Vantec 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID, please see the photo below highlighting the available SATA6G, IDE/PATA ports of the card.



P1 & P2: SATA6G Ports P3: IDE/PATA Port

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Hardware Installation

- 1. Turn off the power to your computer.
- 2. Unplug the power cord and remove your computer's cover.
- 3. Remove the slot bracket from an available PCIe slot.
- 4. To install the board, carefully align the card's bus connector with the selected PCIe slot on the motherboard. Push the board down firmly.
- Attach your internal devices to the 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID.
- 6. Replace the slot bracket's holding screw to secure the card.
- 7. Replace the computer cover and reconnect the power cord.

Creating and Managing Virtual Disks Creating Virtual Disks

This section describes the produce for creating virtual disks using the BIOS **Configuration Wizard**.

To create a virtual disk

 In the **Topology** pane, scroll to **HBA0: Marvell 0** and press Enter to select. A menu pops-up, as shown in Figure 1.

Select Configuration Wizard and press Enter to begin creating

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the virtual disk.

Figure 1 Configuration Wizard

Harvell Blos Set	Information	1848 91xx
	BOS Varsion Fitmars Varsion Remark Varsion Configure Safa as	ал а. ное 27.1.0.1016 4.020ро АНСТ Жибе
Kelp- Select free disks to create a this array. ENTER: Operation F10: Extl	I rray and continue to crea :/Save ESC:Return	te virtual disk on

2. Press **Space** to select/unselect a disk, as shown in Figure 2. Use

the arrow keys to scroll the list of free disks.

Figure 2 Select Free Disks

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Win G. Moraell O Printal Blass Erree Physical Dises L W S. STOTASSING	Vendor ID : 1848 Davido ID : 91x Botisten ID : 91 815 Venion : 10.0.1008 HIS Venion : 10.0.1008 Filesona Venion : 7.1000 Configure Sala a: AKET Mode	
Help Use space bar to select the fri	we disks to be used in the array.	

Note: The 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID supports the creation of RAID 0 and RAID 1 virtual disks comprising of exactly two SATA physical disks. PATA physical disks cannot be used to create RAID virtual disks.

3. After selecting the required disks, press **Enter** to continue, as shown in Figure 3.

Figure 3 Confirm Disk Selection

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NGA 5: Marwall 5 EVITABI DISA Upas Physical Binar E 4 at 17000000 E 4 at 17000000	Yandor IB 1 Device IB 1 Revision ID 1 105 Werston 1 Firmware Version 1 Pice Speed Rate 1 Configure SATA as1	1848 91xx 81 1.0.1008 1.0.1018 5.000ps AJCT Mode
Help Help Use space bar to select the fr ENTER: Operation SPACE: Se	ee disks to be used in th Nect F10: Exit/Save	N array. ISC Ratum

4. **Create Virtual Disk** by configuring its setting in the **Information** pane, as shown in Figure 4.

The controls for making selection are listed in the **Help** pane when an available setting is highlighted.

Figure 4 Configure Virtual Disk

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Note: Max size (MB) and Disk ID are properties of the virtual disk that cannot be edited. Max size (MB) in the size of the RAID virtual disk as determined by the selected RAID Level. Disk ID lists the IDs of the physical disks comprising the virtual disk.

- RAID Level, as shown in Figure 4, is highlighted when the Create Virtual Disk screen is presented. Press Enter to select a RAID Level. A menu pops-up, as shown in Figure 5, and lists available RAID levels.
- Scroll the list, as shown in Figure 5, and press Enter to select a RAID Level (RAID 0, RAID 1).
 Figure 5 RAID Level

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	RAID Level	RAID 0
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Note: The default Level is RAID 0.

7. Scroll to Stripe Size and press Enter to select.

A menu pops-up, as shown in Figure 6, and lists available stripe sizes for the selected RAID level.

 Scroll the list, as shown in Figure 6, and press Enter to select Stripe Size (32K, 64K)

Figure 6 Stripe Size

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	RAID Level I		0 0100
E VICTUAL OLIKE Free Physical Olixas • ↓ H0 81: 5737563300K5 • ↓ H0 07: 5737563300K5	Strije Sta Grander Reunding: Quick Init To Rame Statu Kast	1	4 13 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

Note: The default size is 64 KB.

9. Scroll to Gigabyte Rounding and press Enter to select.

A menu pops-up, as shown in Figure 7, and lists available stripe sizes for the selected RAID level.

Scroll the list, as shown in Figure 7, and press Enter to select
 Gigabyte Rounding (None, 1G, 10G)
 Figure 7 Gigabyte Rounding

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HEA D. Marwall D Evirtual Disks	RAID Level Hax Size (HD) Stripe Size	1	RAID 0 1410400 64 KB
LFree Physical Disks + P0 B: 1775033045 PD D: 57276033045	Ligubyte Houndi Owick Int YD Rame Disa 10 Next	ng i	

Note: The default setting for Gigabyte Rounding is 1G.

11. Scroll to **Quick Init** and press **Enter** to enable to disable quick initialization of the virtual disk.

A menu pops-up, as shown in Figure 8, and lists available options for quick initialization of the virtual disk.

 Scroll the list, as shown in Figure 8, and press Enter to select Quick Init (Yes, No).

Figure 8 Quick Init

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HA D. Marvell D LVirtual Disks LFree Physical Disks	RAID Lavel Hax 517a (1981) Stripe Size Gigsbyte Rounding	RAID 0 1430800 64 KB 16
• FD.0, \$13760330H5	VD Name Disk JD Next	1** 1 11
- Holo		

Note: The default setting for Quick Init is Yes.

 Scroll to VD Name and the Default name is cleared for a new name, as shown in Figure 9.

Type a new name and press Enter to confirm the selection.

Figure 9 VD Name

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-Carfigure-35alect free disk20 Wilk Gr. Horsell 0 EVITeast Briss Free Physical Disks • Free Physical Disks •	Auto Virtual Disk	RAID 9 1433000 64 83 748 748 749 749 749 749 749 749 749 749 749 749
Nolp	va FSC-Batura	

14. After configuring the virtual disk, scroll to **Next**, as shown in Figure 10.

Press Enter to create the virtual disk.

Figure 10 Create Virtual Disk

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HEA G. HATVOTT S EVITERAL DIAL EVITERAL DIAL Errore Physical Dials • LPD B: ST375633045 • LPD B: ST375633045	RATE Level : respiration (RE) : Cripte State Cripte State Cripte State Cripte State Cripte State Trans : Rest Rest	RAID 0 1419600 64 KB 16 No Test 0 0	

Please Y to select Yes, as shown in Figure 11, to confirm the creation of the virtual disk. The virtual disk is now listed in the Topology pane, as shown in Figure 12.

Figure 11 Create Virtual Disk Confirmation

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Figure 12 Virtual Disk in Topology Pane

Marvell Blos Setu — Topology. MIAA Or Marvell 0	p (c) 2009 Marvell Techn Information Vendor 10 :	1logy Group Ltd.	
Virtual Disks LyD 0: Test LyD 0: ST3750230HS LyD 1: ST3750230HS Free Physical Disks	Device 10 Revision 10 BIOS Version Firmware Version : PCIe Speed Rate : Configure SATA as:	9123 B1 1.0.0.100# 2.1.0.1316 5.00bps AHCI Mode	
Mervell RAID on chip controlls ENTER: Operation F10: Exit/	r. Save ESC:Return		

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Managing Virtual Disks

This section contains the following topics:

- Viewing Properties of Virtual Disk
- Erasing RAID Configuration Data
- Rebuilding Virtual Disk
- Deleting Virtual Disk

Viewing Properties of Virtual Disk

To view the properties of a virtual disk, scroll to the **Virtual Disk (VD 0: Default** in Figure 13) in the **Topology** pane. The properties of the virtual disk are displayed in the **Information** pane when **VD 0: Default** is highlighted, as shown in Figure 13.

Figure 13 Virtual Disk Properties: Functional VD

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- Tepology HMA G: Marvell D FV/Call Disk - F0 G: 310/633045 - F0 G: 310/633045 - Free Thysical Disk	Information 10 0 0 Namo Tost Status Fractional Strip Size 4 64 Stil Mode 4 50 Status 5 N/A Subar of Sizes 8 N/A Members 0 0 0
Halp Yirtual Disk: A set of disk bl a range of consecutively numbe ENTER: Operation flo: Datt/	octs presented to an operating environment as real logical blocks with dik-like storage. Jave (SSchutern

Erasing RAID Configuration Data

Note: The RAID controller stores RAID configuration data on all physical disks that are part of a virtual disk. RAID configuration data must be erased on the physical disk before it can be used with another virtual disk.

 In the Topology pane, select Physical Disk (VD 0: Default > PD 0: ST3750330MS in Figure 14) and press Enter.

A menu pops-up, as shown Figure 14.

- 2. Select **Delete** to delete the virtual disk, as shown in Figure 14.
- 3. Select **Yes** when prompted to confirm the erase operation.

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Figure 14 Erase RAID Configuration Data

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Help Use space bar to select the fri ENTER: Operation SPACE: Sel	e disks to be used in th	e array. (SC: Return

Rebuilding Virtual Disk

Note: The 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID BIOS supports manual rebuilding of RAID 1 virtual disks. The rebuild process is both initiated and complete in the BIOS. The Marvell RAID Utility (MRU), which runs in an OS environment, cannot be used to either initiate, resume, or complete the rebuild process. Spare physical disks are not supported.

To manually rebuild a RAID 1 virtual disk

1. When a virtual disk is degraded, the Status of a virtual disk is

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changed from **Functional** to **Degrade**, as shown in Figure 15. **Figure 15 Virtual Disk Properties: Degrade VD**

- Topology	Information-	
HBA 0: Hervall 0 Privital Disks LSD 0: Her 10 LFO 8: 5137/033045 LFree Physical Disks	ID 9 Nov. 10 Rame Parts Strips Star & Rain Strips Star & Rain Star Star & Rain Star Star & Rain Star New Star & Star New Sta	
Halp Virtual Disk: A set of disk bi a range of consecutively mambe ENTER: Operation F10: Exit/	orks presented to an operating environment as red logical blocks with disk-like storage. Save ISK:Meturn	

2. Replace the faulty physical disk with an identical physical disk. Note: If an identical disk is unavailable, use a replacement physical disk or larger size or one with a slightly smaller size as determined the Gigabyte Rounding setting for the virtual disk. The 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID detects the new physical disk and lists the device under Free Physical Disks in the Topology pane, as shown in Figure 16.

Figure 16 Replace Physical Disk

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HAA D: Marwell 0 Princal Duck L 49 H STATASSON L 49 H STATASSON Free Physical Dist L 40 G. Hitschi H337210	Port ID : PO ID : Type : Status : Status : Facture Support : Condent Seed : Serial : Facture Status : Facture Support : Serial : Facture :	0 SATA PO Encoeffgund 15/56000 RC3 34 Selits 38 Selits 39 Selits 97 Selits 9

 In the Topology pane, scroll to Virtual Disks (VD 0: New_VD in Figure 17), and press Enter to select.

A menu pops-up, as shown in Figure 17

Scroll to **Rebuild** and press **Enter** to configure the rebuild process.

Figure 17 Rebuild Virtual Disk

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Marvell Blos Setup	(c) 2009 Marvell Te	ichnology Group Ltd.
HA. 0: Herwell 0 FORTLAI STARS FOR 9: STARS Free Dystar (Challeng) Free Dy	10 : Name : Stripe Size : RAID Mode : Size : BGA Status : Number of PDs : Members :	9 New, 10 644 104672 NB 104672 NB 1/4 7 8
Welp- Virtual Disk: A set of disk blo a range of consecutively number ENTER: Operation F10: Exit/S	cks presented to an ed logical blocks w ave ESC:Return	operating environment as th disk-like storage.:

Scroll through the list of free disk, as shown Figure 18, and press
 Space to select or unselect a replacement physical disk.

Press Enter to continue.

Figure 18 Select Replacement Disk

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NA 5- Norvell 0 -Tirteal Disk Un a Tarkessee Free Paysien Disk Eree Paysien Disk Ere	10 r 0 Hans t Prov. 10 Stripp Size c c c C C C C C C C C C C C C C C C C	
NoTo D		

5. Press **Y** to select **Yes**, as shown in Figure 19, when prompted to confirm the rebuild process.

Figure 19 Confirm Rebuild Virtual Disk



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6. The status of the Rebuild process is reflected in the properties of the virtual disk, as shown in Figure 20.

Figure 20 Rebuild Status

Harvell BloS Serce Topology HBA 0: Marvell 0 - Virtual Disks - Serce - Policity - Policy	a (c) 2009 Marvall Technology Group Ltd. Information Status Status Straps Stat Straps State Straps State Straps State Straps States Straps S
#e1p	
Holp- Virtual Disk: A set of disk blo a range of consecutively number ENTER: Operation F10: Exit/3	ocks presented to an operating environment as red logical blocks with disk-like storage. Save ESC:Return

To pause the rebuild process

- 1. In the **Topology** pane, scroll to the partially rebuild **Virtual Disk**.
- 2. Press Enter to view available operation on Virtual Disk.
- Scroll to Pause and press Enter to pause the rebuild process. Note: Incomplete rebuild procedures are paused upon exiting the BIOS. The rebuild procedure(s) can be resumed manually upon re-entering the BIOS.

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To pause the rebuild process

- 1. In the **Topology** pane, scroll to the partially rebuild **Virtual Disk**.
- 2. Press Enter to view available operation on Virtual Disk.
- 3. Scroll to **Resume** and press **Enter** to resume the rebuild process. Note: The rebuild process is both initiated and completed in the BIOS. The Marvell RAID Utility (MRU), which runs in an OS environment, cannot be used to either initiate, pause, resume, or complete the rebuild process.

Deleting Virtual Disk

To delete a virtual disk

1. In the **Topology** pane, select **Virtual Disk** (**VD 0: Default** in Figure 21) and press **Enter**.

A menu pops-up, as shown Figure 21.

- 2. Select **Delete** to delete the virtual disk, as shown in Figure 21.
- 3. Press **Y** to select **Yes** when prompted **Do you want to delete this** virtual disk?
- Press Y to select Yes when prompted Do you want to delete MBR from this virtual disk?
 Figure 21 Delete Virtual Disk

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Driver Installation

Note: Driver can also be found and downloaded from our website at www.vantecusa.com

For Windows® XP/Server 2003

For A New Installation

A new installation requires a floppy disk for the driver installation. To make this floppy disk, copy the contents of the "UGT-IS602R\XP_2003_Vista_2008_7\Floppy32" folder, found on the driver CD, onto a blank floppy disk then follow the directions

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below.

- 1. Follow Microsoft's Windows installation procedure.
- 2. At the Windows Setup screen, press **F6** to install the driver.
- 3. When prompted, press **S** to specify the location of the driver.
- 4. Insert the floppy disk, then press **Enter**.
- 5. Scroll to **Marvell shared library (install first)** using the arrow keys and press **Enter** to select.
- 6. Press **S** again to select the second device.
- Scroll to Marvell 91xx SATA Controller 32bit Driver and press Enter to select.
- 8. Press **Enter** to complete the installation of drivers.
- 9. Continue with the Windows OS installation.
- And there is an additional device Marvell 91xx Config SCSI Processor Device is detected when Windows starts for the first time.
- Please insert the CD driver bound with 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID into your CD-ROM Drive.
- 12. At the Windows desktop, click Start, then Run.
- 13. Type D:\UGT-IS602R\XP_2003_Vista_2008_7\Setup.exe, click

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OK. (Change **D**:\ to match your CD-ROM drive letter)

- 14. Follow the on-screen instructions to complete the installation.
- After successful installation, the device is listed in the Device Manager as Marvell 91xx Config Device (under System Device)

For An Existing Installation

- Please insert the CD driver bound with 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID into your CD-ROM Drive.
- 2. At the Windows desktop, click Start, then Run.
- Type D:\UGT-IS602R\XP_2003_Vista_2008_7\Setup.exe, click
 OK. (Change D:\ to match your CD-ROM drive letter)
- 4. Follow the on-screen instructions to complete the installation.
- 5. Restart Windows to complete the installation.

For Windows® XP-x64/Server 2003-x64

For A New Installation

A new installation requires a floppy disk for the driver installation. To make this floppy disk, copy the contents of the "UGT-IS602R\XP_2003_Vista_2008_7\Floppy64" folder, found on the driver CD, onto a blank floppy disk then follow the directions

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below.

- 1. Follow Microsoft's Windows installation procedure.
- 2. At the Windows Setup screen, press **F6** to install the driver.
- 3. When prompted, press **S** to specify the location of the driver.
- 4. Insert the floppy disk, then press **Enter**.
- 5. Scroll to **Marvell shared library (install first)** using the arrow keys and press **Enter** to select.
- 6. Press **S** again to select the second device.
- Scroll to Marvell 91xx SATA Controller 64bit Driver and press Enter to select.
- 8. Press **Enter** to complete the installation of drivers.
- 9. Continue with Windows OS installation.
- And there is an additional device Marvell 91xx Config SCSI Processor Device is detected when Windows starts for the first time.
- Please insert the CD driver bound with 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID into your CD-ROM Drive.
- 12. At the Windows desktop, click Start, then Run.
- 13. Type D:\UGT-IS602R\XP_2003_Vista_2008_7\Setup.exe, click

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OK. (Change **D**:\ to match your CD-ROM drive letter)

- 14. Follow the on-screen instructions to complete the installation.
- After successful installation, the device is listed in the Device Manager as Marvell 91xx Config Device (under System Device)

For An Existing Installation

- Please insert the CD driver bound with 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID into your CD-ROM Drive.
- 2. At the Windows desktop, click **Start**, then **Run**.
- Type D:\UGT-IS602R\XP_2003_Vista_2008_7\Setup.exe, click
 OK. (Change D:\ to match your CD-ROM drive letter)
- 4. Follow the on-screen instructions to complete the installation.
- 5. Restart Windows to complete the installation.

For Windows® Vista/2008/7

For A New Installation

- 1. Follow Microsoft's Windows installation procedure.
- 2. At the Windows Setup screen, press **Load Driver** to install the driver.

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- Insert the CD driver bound with 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID into your CD-ROM Drive, please select Marvell 91xx SATA 6G Controller (D:\UGT-IS602R\XP_2003_Vista_2008_7\Floppy32\mv91xx.inf), then press Next. (Change D:\ to match your CD-ROM drive letter)
- 4. Continue with Windows OS installation.
- And there is an additional device Marvell 91xx Config SCSI Processor Device is detected when Windows starts for the first time.
- Please insert the CD driver bound with 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID into your CD-ROM Drive.
- 7. At the Windows desktop, click **Start**, then **Run**.
- Type D:\UGT-IS602R\XP_2003_Vista_2008_7\Setup.exe, click
 OK. (Change D:\ to match your CD-ROM drive letter)
- 9. Follow the on-screen instructions to complete the installation.
- After successful installation, the device is listed in the Device Manager as Marvell 91xx Config Device (under System Device)

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For An Existing Installation

- Please insert the CD driver bound with 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID into your CD-ROM Drive.
- 2. At the Windows desktop, click **Start**, then **Run**.
- Type D:\UGT-IS602R\XP_2003_Vista_2008_7\Setup.exe, click
 OK. (Change D:\ to match your CD-ROM drive letter)
- 4. Follow the on-screen instructions to complete the installation.
- 5. Restart Windows to complete the installation.

For Windows® Vista-x64/2008-x64/7-x64

For A New Installation

- 1. Follow Microsoft's Windows installation procedure.
- At the Windows Setup screen, press Load Driver to install the RAID driver.
- Insert the CD driver bound with2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID into your CD-ROM Drive, please select Marvell 91xx SATA 6G Controller (D:\UGT-IS602R\XP_2003_Vista_2008_7\Floppy64\mv91xx.inf), then press Next. (Change D:\ to match your CD-ROM drive

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letter)

- 4. Continue with Windows OS installation.
- And there is an additional device Marvell 91xx Config SCSI Processor Device is detected when Windows starts for the first time.
- Please insert the CD driver bound with 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID into your CD-ROM Drive.
- 7. At the Windows desktop, click **Start**, then **Run**.
- Type D:\UGT-IS602R\XP_2003_Vista_2008_7\Setup.exe, click
 OK. (Change D:\ to match your CD-ROM drive letter)
- 9. Follow the on-screen instructions to complete the installation.
- After successful installation, the device is listed in the Device Manager as Marvell 91xx Config Device (under System Device)

For An Existing Installation

- Please insert the CD driver bound with 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID into your CD-ROM Drive.
- 2. At the Windows desktop, click **Start**, then **Run**.

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- Type D:\UGT-IS602R\XP_2003_Vista_2008_7\Setup.exe, click OK. (Change D:\ to match your CD-ROM drive letter)
- 4. Follow the on-screen instructions to complete the installation.
- 5. Restart Windows to complete the installation.

To Verify Driver Installation

- 1. Right click My Computer and click Manage.
- 2. Select Device Manager.
- 3. Look for the following:

<u>Windows® 2000/XP/2003:</u> Double click SCSI and RAID Controller:

-Marvell 91xx SATA 6G Controller should be displayed

<u>Windows® Vista/2008/7:</u> Double click Storage controllers:

- Marvell 91xx SATA 6G Controller should be displayed

Marvell RAID Utility (MRU)

The MRU System Tray application is available on Windows OS and appears as an icon in the system tray. Clicking this icon launches the MRU in your default browser.

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Warranty

The 2+1 SATA 6G & PATA PCI-E COMBO HOST CARD WITH RAID comes with a 1 year limited warranty(90 day parts). If your unit that time becomes defective within frame, please go to www.vantecusa.com for information on how to receive warranty exchange or repair. Cosmetic defects and missing parts are not covered under this warranty. Please check the contents of the unit to make sure you received all parts. Also, check for any cosmetic flaws. If any parts are missing or if there are cosmetic defects, please contact the retailer from which you purchased the unit immediately and ask for a replacement.

> Vantec Thermal Technologies 43951 Boscell Rd. Fremont, CA 94538 Tel: 510-668-0368 fax: 510-668-0367 website: www.vantecusa.com

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