

IMBA-Q87A-A10-HH RAID1 Setting SOP

- 1. Before turn on power, check 2 things under below:
 - a. Connect at least 3 HDDs to system
 - b. Download IMBA-Q87A "RST driver" into your USB stick on

Aaeon website

http://www.aaeon.com/tw/p/atx-imba-q87a#downloads

RST Driver	RST Driver Step9 - RST Driver Linux, Windows 7 64, Windows 7 32, Windows 8 32, Windows 8 64 2013-09-01
	▲ GLOBAL 16.30 MB ▲ US 16.30 MB

2. Power on system and enter into BIOS screen.





3. Check 3 HDDs detect with system first.

(example are one 1TB TOSHIBA and two 32G Transcend SSDs)

Aptio Setup Utili Main Advanced Chipset <mark>Boot</mark>	t y – Copyright (C) 2012 American Security Save & Exit	Me
Boot Configuration Quiet Boot	[Enabled]	Se
Launch I217LM PXE OpROM Launch WGI210AT PXE OpROM	[Disabled] [Disabled]	
Boot Option Priorities Boot Option #1 Boot Option #2 Boot Option #3	[TDSHIBA MQ01ABD100] [TS32GSSD370] Boot Option #1 TOSHIBA MQ01ABD100 TS32GSSD370 TS32GSSD370	
	Disabled	++: †∔: Ent

4. Enter into Advanced \rightarrow SATA Controller,

Change "SATA Mode Selection" to "RAID" mode

Advanced	
SATA Controller(s) SATA Mode Selection	[Enabled] [RAID]
Serial ATA Port 0	TOSHIBA MQ01AB (1000.2GB [Enabled]
Serial ATA Port 1 Port 1	TS32GSSD370 (32.0GB) [Enabled]
Hot Plug Serial ATA Port 2	[Enabled] TS32GSSD370 (32.0GB) [Epabled]
Hot Plug Serial ATA Port 3	SATA Mode Selection
Port 3 Hot Plug	AHCI RAID
Port 4 Hot Plug	

5. Saved & Reset BIOS change, system reboot.





6. When system reboot, press hot key "Ctrl+I" (capital i) into

RAID setting mode. (You can see screen like below photo)

7. Select first item "1. Create RAID Volume"

Intel(R) Rapid Storage Technology - Option ROM - 12.5.0.1815 Copyright(C) 2003-13 Intel Corporation. All Rights Reserved.						
<mark>1. Create Rf</mark> 2. Delete Rf 3. Reset Dis	ID Volume AID Volume sks to Non-RAID	4. Recovery Volume Options 5. Acceleration Options 6. Exit				
RAID Volumes: None defined. Physical Devices:	RAID Volumes: None defined.					
ID Device Model 0 TOSHIBA MQ01ABD: 1 TS32GSSD370 2 TS32GSSD370	Serial # 66ART556T B728860561 B728860569	Size Type/Status(Vol ID) 931.5GB Non-RAID Disk 29.8GB Non-RAID Disk 29.8GB Non-RAID Disk				
[†↓]-Select	[ESC]-Exi	t [ENTER]-Select Menu				





8. Enter RAID name you want to naming.

(example name is called Volme1)

Intel(R) Rapid Storage Copyright(C) 2003-13	e Technology - Option R Intel Corporation, All	OM - 12.5.0.1815 Rights Reserved.		
Name: RAID Level: Disks: Strip Size: Capacity: Sync:	Volume1 RAIDO(Stripe) Select Disks 128KB 0.0 GB N/A Create Volume			
	HELP]			
Enter a unique volume name that has no special characters and is 16 characters or less.				

4



9. Use Up and Down keys select "RAID Level" to

"RAID1(Mirror)"

Intel(R) Rapid Storage Copyright(C) 2003-13 I	Technology - Option ROM - 12.5.0.1815 Intel Corporation. All Rights Reserved.			
	REALE VOLUME MENU]			
Name: RAID Level: Disks: Strip Size:	Volume1 <mark>RAID1(Mirror)</mark> Select Disks N/A			
Capacity:	0.0 GB			
Sync:	N/A			
	Create Volume			
	HELP 1			
RAID 1: Mirrors data (redundancy).				
[↑↓]Change [TAB]-Ne	← ESCI-Previous Menu [ENTER]-Select			

5



10. Use "Space" key to select RAID1 two disks

Intel(R) Rapid Storage Technology - Option ROM - 12.5.0.1815 Copyright(C) 2003-13 Intel Corporation. All Rights Reserved.					
Name: RAID Level:	Volume1 RAID1(Mirror) =[SELECT DISKS]:				
ID Drive Model TOSHIBA MQ01ABD100 1 TS32GSSD370 2 TS32GSSD370 Select 2 disks f [↑↓]-Prev/Next [SPACE]-S	Serial # 66ART556T B728860561 B728860569 to use in creating SelectDisk [ENTER]	Size Status 931.5GB Non-RAID Disk 29.8GB Non-RAID Disk 29.8GB Non-RAID Disk the volume.			
[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	t [ESC]-Previous	Menu [ENTER]-Select			

	Intel(R) Rapid Storag Copyright(C) 2003-13 [Name: RAID Level:	re Technology - O Intel Corporatio Volume1 RAID1(Mirror)	ption ROM - 12.5.0.1815 n. All Rights Reserved.	
II 0 ▶1 ▶2	D Drive Model TOSHIBA MQ01ABD100 TS32GSSD370 TS32GSSD370	Serial # 66ART556T B728860561 B728860569	Size Status 931.5GB Non-RAID Disk 29.8GB Non-RAID Disk 29.8GB Non-RAID Disk	
	Select 2 disks	to use in creatin SelectDisk (ENTE)	ng the volume.	
		SELECTORS CONTRA		
	[↑↓]Change [TAB]-Ne	× [Fff]-fevicy	S Menu [ENTER]-Select	



11. Enter RAID HDD space you want to setting

Intel(R) Rapid Storage Copyright(C) 2003-13 I	Technology - Option ROM - 12.5.0.1815 ntel Corporation. All Rights Reserved.		
L L	RENTE OULOME MENU J		
Name: RAID Level: Disks: Strip Size: Capacity: Sync:	Volume1 RAID1(Mirror) Select Disks N/A <mark>29.8 GB</mark> N/A Create Volume		
[HELP] The default value indicates the maximum capacity using the selected disks. Entering a lower capacity allows you to create a second volume on these disks.			
[1] IChange [TOB]-N	← III III III III III III IIII IIII II		

7



12. Press "Enter" to create Volume

Intel(R) Rapid Storage Technology - Option ROM - 12.5.0.1815 Copyright(C) 2003-13 Intel Corporation. All Rights Reserved.				
Name: Volume1 RAID Level: RAID1(Mirror) Disks: Select Disks Strip Size: N/A Capacity: 29.8 GB Sync: N/A Create Volume				
L HELD 1				
Press ENTER to create the specified volume.				
[↑↓]Change [TAB]-Next [開C]-@revt>us Menu [ENTER]-Select				

13. Press "Y"

Intel(R) Rapid Storage Technology - Option ROM - 12.5.0.1815 Copyright(C) 2003-13 Intel Corporation. All Rights Reserved.					
Name: Volume1 RAID Level: RAID1(Mirror) Disks: Select Disks Strip Size: N/A Capacity: 29.8 GB Sync: N/A					
WARNING: ALL DATA ON SELECTED DISKS WILL BE LOST.					
Are you sure you want to create this volume? (Y/N):					
Press ENTER to create the specified volume.					
[++]Change [TAB]-Next [ESC]-Previous Menu [ENTER]-Select					

8



14. You can see RAID1(Mirror) "Volume1" already create

	Intel(R) Rapid Storage Technology - Option ROM - 12.5.0.1815 Copyright(C) 2003-13 Intel Corporation. All Rights Reserved. [HILIN MENU] 1. Create RAID Volume 4. Recovery Volume Options 2. Delete RAID Volume 5. Acceleration Options 3. Reset Disks to Non-RAID 6. Exit					
RAID ID 0	Volumes: Name Volume1	Level RAID1(Mirror)	Strip N/A	Size Status 29.8GB Normal	Bootable Yes	
Phys ID 0 1 2	ical Devices: Device Model TOSHIBA MQ01ABD1 TS32GSSD370 TS32GSSD370	Serial # 66ART556T B728860561 B728860569		Size Type/Sta 931.5GB Non-RAID 29.8GB Member D 29.8GB Member D	tus(Vol ID) Disk isk(0) isk(0)	
	[†↓]-Select	ESCI-Exit	in →	[ENTER]-Select	Menu	

15. Exit

	Intel(R) Rapid Copyright(C) 2	d Storage Technold 2003-13 Intel Corj	ogy - Opt poration.	tion ROM - All Rig	12.5.0.1 hts Reser	815 ved.
	1. Create RA 2. Delete RA 3. Reset Dis	ID Volume ID Volume ks to Non-RAID	4. 5. 6.	Recovery Accelerat Exit	Volume Op ion Optio	tions ns
RAID ID 0	Volumes: Name Volume1	Level RAID1(Mirror)	Strip N⁄A	Size 29.8GB	Status Normal	Bootable Yes
Phys ID Ø 1 2	ical Devices: Device Model TOSHIBA MQ01ABD1 TS32GSSD370 TS32GSSD370	Serial # 66ART556T B728860561 B728860569		Size 931.5GB 29.8GB 29.8GB	Type/Stat Non-RAID Member Di Member Di	us(Vol ID) Disk sk(0) sk(0)
	[↑↓]-Select	FESCI-Exit	ł.	LENTER]-Select	Menu





16. Enter into BIOS again to check "Boot" sheet, "Boot Option"

can see RAID1 call "Intel Volume1" we create before.



17. Hot plug USB stick (RST driver already included), reboot

system to start install Win7







18. Load "RST Driver" from USB stick

🚱 🚜 Install Windows	1	1	×
Where do you want to install Windows	?		
Name	Total Size	Free Space	Туре
Disk 0 Partition 1	931.5 GB	919.9 GB	Primary
Disk 1 Unallocated Space	29.8 GB	29.8 GB	
Refresh		Drive options	(advanced)
		_	Next
g information 2 Installing Windows			
Select the driver to be installed.			
Load Driver To install the device driver needed to acce media containing the driver files, and ther Note: The installation media can be a flop	iss your hard drive, ins n click OK. py disk, CD, DVD, or U	ert the installatio SB flash drive.	2 n
Hide onvers that are not compatible with naroware to Browse Browse Rescan	Browse 0	K Can	cel
llecting information			Ideat



Browse for Folder	×I
Browse to the driver(s), and then dick OK	
1 Computer	
E _ Local Disk (C:)	
E _ Crede (D:)	
Q87A	
🖃 📕 Step9 - RST	
f6fpy-x64	
4 qm87	
F CD Drive (E:) GRMCULERER EN DVD	

C A Install Windows	
Select the driver to be installed.	
Intel(R) Desktop/Workstation/Server Express Chipset SATA RAID Controller (D:\Q874	4\Step9 - RST\f
×	2
Hide drivers that are not compatible with hardware on this computer.	
Browse Rescan	Next







🚱 🖉 Install Windows	
Select the driver to be installed.	
Intel(R) Desktop/Workstation/Server Express Chipset SATA RAID Controller (D:\Q87A\Step9 -	RST\f
4	•
✓ Hide drivers that are not compatible with hardware on this computer.	
Browse Rescan	Next

19. Start to install Win7 and wait

	Name	Total Size	Free Space	Туре
9	Disk 0 Unallocated Space	29.8 GB	29.8 GB	
0	Disk 1 Partition 1	931.5 GB	919.9 GB	Primary
++ Refre	sh		Drive options	(advanced)







20. Enter into Win7 desktop

Right click chose "Manage" \rightarrow "Disk Management"







Computer Management	a state of the second second					
File Action View Help						
🧇 🄿 🔁 📰 😰 📾						
Computer Management (Local System Tools Carl Task Scheduler Event Viewer Exert Viewer Exert Folders Cocal Users and Groups Cocal Users and Cocal Users Cocal Users and Cocal Users Cocal Users and Cocal Users Cocal Users and Cocal Users Cocal Use	Volume (C:) System Reserved	Layout Simple Simple	Type Basic Basic	File System NTFS NTFS	Status Healthy (Boot, Page File, Healthy (System, Active,	Actio
	Disk 0 Basic 931.51 GB Online Disk 1 Basic 29.80 GB Online	(C:) 931.51 GB Healthy (B System R 100 MB N Healthy (NTFS oot, P 29.7 Una	age File, Crasl 0 GB illocate	n Dump, Primary Parti	
×	📕 Unallocated 📕 P	rimary par	tition			1

21. Right click "Disk1" (RAID1 HDD) \rightarrow "New Simple Volume..."

➡ (C:) ➡ System Reserve	Simple B d Simple B	iasic NTFS Basic NTFS	Healthy (B Healthy (S	ioot, Page File, (ystem, Active, f	Disk Management More Actions
Disk 0 Basic 931.51 GB Online	(C:) 931.51 GB I Healthy (Be	NTFS oot, Page File, Cras	h Dum	New Simple Vo New Spanned New Striped Vo New Mirrored New RAID-5 Vo Properties	Volume Volume Volume Volume
Disk 1 Basic 29.80 GB Online	System R 100 MB N Healthy ()	29.70 GB Unallocated		Help	

15





New Simple Voluppe Wirard	
iter simple volume vizaru	
Format Partition To store data on this partition, yo	u must format it first.
Choose whether you want to form	nat this volume, and if so, what settings you want to use.
Do not format this volume	
Format this volume with the	a following settings:
File system:	NTFS -
Allocation unit size:	Default
Volume label:	New Volume
Perform a quick form	at
Enable file and folde	compression
	< Back Next > Cancel
1 1///////	7777777777777
New Simple Volume Minard	ACTOR
New Simple Volume Wizard	
New Simple Volume Wizard	mpleting the New Simple
New Simple Volume Wizard	mpleting the New Simple lume Wizard
New Simple Volume Wizard	mpleting the New Simple lume Wizard
New Simple Volume Wizard Col Vol You I Volu Disk Volu Disk Alloc Volu Crime	mpleting the New Simple Iume Wizard have successfully completed the New Simple Volume rd. selected the following settings: me size: 30412 MB e letter or path; D: system: NTFS sition unit size: Default me label: New Volume k format: Yee





22. You can see two HDD in computer, RAID1 already create in

your system.

in the secondary				+ + Search Comp	outer
Organize 👻 System p	properties	Uninstall or change a program	Map netwo	ork drive »	14t -
 Favorites Desktop Downloads Recent Places Libraries Documents Music Pictures Videos 	- Hard	Disk Drives (2) Local Disk (C:) 915 GB free of 931 GB		New Volume (D:) 29.6 GB free of 29.6 GB	

23. Finished.

