

How to set up the RAIDDRIVE

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revision 1.1

STT Engineering



RAIDDRIVE configuration is set with Windows mode and PC environment so that the customers sometimes need to reset the RAIDDRIVE if the environment is different.

The following shows 'How to set up the RAIDDRIVE as it fits to your environment.

First thing you need to do is 'Delete the RAIDSET' on page 4.

On Main Menu:

- 1. Select 'Raid Set Function'
- 2. At Submenu, select 'Delete the Raid Set'
- 3. And follow the instruction to delete it.
- 4. On completion, restart the computer.
- 5. Then, reset the RAIDDRIVE as follows.

Main Menu

Quick Volume/Raid Setup Raid Set Function Volume Set Function Physical Drives Raid System Function Hdd Power Management View System Events Clear Event Buffer Hardware Monitor System Information



Press Tab button within 5 seconds.

STT-RA16 PCIEx8 RAID Controller - DRAM: 512(MB) / #Channels: 8 BIOS: U1.22a / Date: 2009-09-18 - F/W: U1.47 / Date: 2009-10-22 Bus/Dev/Func=2/0/0, I/O-Port=FBBFE000h, IRQ=15, BIOS=D200:0h >> No BIOS disk found. RAID controller BIOS not installed! >> Press (Tab/F6) to enter SETUP menu. second(s) left (ESC to skip)..

Press Enter button to go into the BIOS setup.



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Main Menu

Quick Volume/Raid Setup Raid Set Function Volume Set Function Physical Drives Raid System Function Hdd Power Management View System Events Clear Event Buffer Hardware Monitor System Information



Enter the password: 531772648691052

Move to RAID SYSTEM Function



Move to Advance Feature

Raid System Function

Mute The Alert Beeper Alert Beeper Setting Change Password **JBOD/RAID** Function Background Task Priority SATA NCQ Support HDD Read Ahead Cache Volume Data Read Ahead Hdd Queue Depth Setting Empty HDD Slot LED Auto Activate Raid Set Disk Write Cache Mode **Capacity Truncation** Advanced Feature

Enter Modify Vendor Name

Advanced Features

Modify Vendor Name Modify Controller Name Unit Serial Number TLER Setting Timeout Setting Retry Count Setting Buffer Threshold Amount Of Read Ahead Number Of AV Streams Optimize AV Recording Optimize HD Editing

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STT-RA16

Make sure the controller name is STTORA16

Ed i	t	Unit	Serial	Number
	31	'TRDA1	0021640	03

Make sure that it has the Serial Number

Number	Of	AV	Streams
	E	5	
	11	l	
	16)	
	21		
	26	Ì	
	31		
	36)	
	56)	
	76)	
	96)	
	116)	
	136)	
	156		
	176)	
	196	1	
	216		
	236		
	256		

Default is 6. For A/V editing application, you may set it with 31.



Optimize	For	AV	Recording
	Disa	able	ed
	Mode	e1	
	Mode	e2	
	Mode	e3	

Default is "Disabled" You may set with Mode 3 for AV recording

Optimize For HD Editing
Disabled MAC Mode 1 MAC Mode 2 MAC Mode 3
Windows

Default is "Disabled" You may set it for your OS.



Go back to Main Menu and select the RAID SET Function

Se	lect	IDE Drives For Raid Set
[*]E1Slot#1		64.0GB¦SuperTalent SSD
[*]E1Slot#2	1	64.0GB SuperTalent SSD
[*]E1Slot#3	1 1	64.0GB SuperTalent SSD
[*]E1Slot#4		64.0GB SuperTalent SSD

Select all available drives. (Enter button will show you "*") Then press esc button



Edit the RAID Set Name as above. Then enter



Then save it.

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Go to Main Menu and select Volume Set Fuctions

Volume Set Functions

Create Volume Set Create Raid30/50/60 Delete Volume Set Modify Volume Set Check Volume Set Stop Volume Check Display Volume Info. Create Volume From Raid Set

STT-RDSET1002A03:4/4 Disks:Normal

Enter the Volume to be edited.

Volume Creatio	m	
Volume Name	;	STT-RA16-VOL#000
Raid Level	:	5
Capacity		180.0GB
Stripe Size	1 1	64K
SCSI Channel	:	0
SCSI ID	:	0
SCSI LUN		0
Cache Mode	:	Write Back
Tag Queuing		Enabled

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Edit the Volume as left. RGS0256M is just an example. Please refer to the STT part number.

Edit the RAID level as left.

When you set it with RAID 5 level, you may need to do "Foreground Initialize" It may take 10 to 40minutes.





Now, the setting is done.

Press F10 button and the following screen will show up.

Then press "y"



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OS Installation Guide (Example: Windows 7)

- a. Turn off the power. Just disconnect the power line from your computer.
- b. Plug in RAID drive into the PCIe socket (nearest from the CPU)
- c. Plug in 4 pin molex power on the RAIDDRIVE
- d. Make sure SATA interface DVD for the OS installation.
 - PATA may not be functioning. Error message: 0x80070015.
 - See the MS website for the details.
- e. Configure the motherboard BIOS boot sequence properly.
 - i. DVD for OS disk
 - ii. RAIDDRIVE
 - iii. Others like Floppy drive,...
- f. Must configure the SATA mode as "IDE" (not AHCI)
- g. One more thing: Please use Floppy Disk Drive for driver installation.

Please contact james.lee@supertalent.com for further questions.