

# NA762TB3

Thunderbolt 3 Desktop 8-Bay RAID Storage



## User Manual

Second edition, Mar. 2019

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### 1. Unpack the NA762TB3

The box contains the following items:

- Netstor NA762TB3 storage
- HDD tray × 8 (installed in enclosure)
- Thunderbolt 3 cable (2 meters) × 1
- $^{\circ}$  Power cord × 1
- HDD mounting screws
- Key for HDD tray × 2

### 2. Storage Enclosure Description

**Panel Layout** 







### 3. Setup Procedure

### 3.1 Storage Setup

- 1. Place NA762TB3 storage on a level surface on a stable table.
- 2. Take out all the eight HDD trays.





3. Place HDDs in the trays and fix them with the included hard drive mounting screws. And then put the trays with HDDs back to NA762TB3 storage.



4. Connect NA762TB3 and Thunderbolt 3 computer with Thunderbolt cable, and then connect Netstor storage with power source.



#### 3.2 Fan Speed Adjustment

1. There are two hot-swappable 80×80×25 mm cooling fans for ventilation at rear of NA762TB3. After loosening the two thumbscrews on fan module, the fan module can be detached from storage.



The rear 80×80×25 mm cooling fans speed can be adjusted. As fan module is detached from storage, there are four sets of jumpers labeled with 6V, 8V, 10V, 12V from left to right on the backplane inside NA762TB3. The default setting is the jumper being placed over pin 7 and 8 for label 6V for slowest speed. The speed increases from label 8V to label 12V. As jumper is not placed over pins, the fan will spin at 12V full speed.



### 4. Power On/Off NA762TB3

- ※ If there is a PSU power switch on Netstor storage, remember to switch it to "I" position to enable the PSU first.
- 1. NA762TB3 storage is designed to be powered on/off simultaneously with the Thunderbolt 3 computer as NA762TB3 is connected to computer by Thunderbolt cable. Therefore, power on computer first, and then NA762TB3 will be powered on automatically.



- 2. As NA762TB3 storage is connected to computer by Thunderbolt cable, when shutting down computer, the NA762TB3 will be shut down automatically as well.
- \* NA762TB3 supports hot-plug and hot-unplug for powering on and off.

### 5. Verification

### 5.1 macOS

 Verify Netstor NA762TB3 is recognized by computer. Click Apple icon at the top menu bar, select **About This Mac**, and click **System Report** button. Click **Thunderbolt** in the left column, as NA762TB3 appears in the information, it means Netstor storage is recognized correctly by computer.



2. Verify RAID controller of NA762TB3. Right after the above point 1, click **PCI** in the left column, and information about NA762TB3 RAID controller will appear. (For RAID controller, from starting up, it will take more time for its info to be shown)

		MacBook Pro
<ul> <li>Hardware</li> <li>ATA</li> <li>Audio</li> <li>Bluetooth</li> <li>Camera</li> <li>Card Reader</li> <li>Diagnostics</li> <li>Disc Burning</li> <li>Ethernet Cards</li> <li>Fibre Channel</li> <li>FireWire</li> <li>Graphics/Displays</li> <li>Hardware RAID</li> <li>Memory</li> <li>NVMExpress</li> <li>PCI</li> <li>Parallel SCSI</li> </ul>	pci17d3,1214: Type: Driver Installed: Tunnel Compatible: Pause Compatible: MSI: Bus: Slot: Vendor ID: Device ID: Subsystem Vendor ID: Subsystem ID: Revision ID: Link Width: Link Speed:	RAID Controller Yes Yes Yes PCI Thunderbolt@133,0,0 0x17d3 0x1214 0x17d3 0x1224 0x00b3 x4 5.0 GT/s

 Verify the driver of NA762TB3 RAID controller. Following point 2, there is an item Driver Installed indicating the status of RAID controller's driver. The driver is already embedded in macOS 10.12 and later.

	MacBook Pro
pci17d3,1214:	
Type:	RAID Controller
Driver Installed:	Yes
Tunnel Compatible:	Yes
Pause Compatible:	Yes
MSI:	Yes
Bus:	PCI
Slot:	Thunderbolt@133,0,0
Vendor ID:	0x17d3
Device ID:	0x1214

- 4. Download MRAID GUI program to configure and set up RAID volume for NA762TB3. To download MRAID GUI program, please visit: www.netstor.com.tw
- 5. After downloading and installing MRAID GUI program, open MRAID folder, and double click **ArcHTTP64** icon to enter configuration page on web browser.



6. When at first page of web GUI, click **SAS RAID Controllers**, select **Web Management**, and then a login pane will pop up.



7. Input **admin** for name and **0000** for password to enter.

Log in to 192.168.0.196:82		
Your login information will be sent secu	urely.	
admin		
••••		1
Remember this password		
	Cancel	Log In

8. After logging in, for quick setup of RAID volume, click **Quick Function** in the left column, and select **Quick Create**. After RAID volume is created, a pane will pop up providing three selections for action. Click **Initialize** button to format the RAID volume.

	ARCHTTP Co	onfiguration			
open allclose all				The disk you insert	ed was not readable by this
Raid System Console	RaidSet Hie	rarchy		computer.	
E 🔁 Quick Function	RAID Set				
AID Set Functions				Initialize	Ignore Eject
Physical Drives	- Enclosure#				
E C System Controls	Device	Usan			
	Slot#1(0)	Free			

 Select the RAID volume, click Erase button at top side. Name the RAID volume in center part, and click Erase button at bottom right to format the RAID volume. After formatting, the RAID volume is ready for use.

Disk Utility	Erase "Areca ARC-1224-VOL#000 Media"? Erasing "Areca ARC-1224-VOL#000 Media" will delete all data stored on It, and cannot be undone. Provide a name, choose a partition map and format, and click Erase to proceed.
Areca ARC-1224-VOL#000	Name: NA762TB3
1.2 TB Uninitalized	Format: Mac OS Extended (Journaled)
	Scheme: GUID Partition Map 🗘
	Security Options Cancel Erase



#### NOTE

To eject the RAID volume on macOS, click **Go** at the top menu bar, and select **Computer**. Right click the RAID volume, and select **Eject** to safely eject the RAID volume from computer.

#### 5.2 Windows Operating System

1. Verify Netstor NA762TB3 is recognized by computer. Right click **This PC**, and select

**Manage**. As window of Computer Management pops up, click **Device Manager** in the left column, click **View** at the top menu bar, and select **Devices by connection**.



2. Click ACPI x64-based PC, select Microsoft ACPI-Compliant System, and click PCI Express

**Root Complex**. Open the PCI Express Root Port, and NA762TB3's RAID controller will be shown, meaning Netstor storage is recognized correctly by computer.



3. Install Windows MRAID that contains Windows driver of NA762TB3 RAID controller and Windows GUI program. To download Windows MRAID, please visit: www.netstor.com.tw 4. After installing the driver and the GUI program, launch the GUI program by

selecting ArcHttpSrvGUI in All Programs in Windows Start to run the application.



5. Subsequent to running ArcHttpSrvGUI application, the web-based GUI will appear. Select **SAS RAID Controllers**, and then select **Web Management** to enter the web GUI.



6. Key in **admin** for name and **0000** for password to enter.



 After logging in, for quick setup of RAID volume, click Quick Function in the left column, and select Quick Create.



8. After creating RAID volume, right click **This PC**, and select **Manage**. As window of Computer Management pops up, click **Disk Management** in the left column, and a window will pop up; select **GPT (GUID Partition Table)**, and click OK.

	Initialize Disk	×
This PC Open Pin to Quick access Manage Pin to Start	You must initialize a disk before Logical Disk Mana, Select disks: ☑ Disk 1	zer can access it.
Map network drive Disconnect network drive	Use the following partition style for the selected disk	<u> </u>
Create shortcut Delete Rename	<ul> <li>GPT (GUID Partition Table)</li> <li>Note: The GPT partition style is not recognized by al Windows.</li> </ul>	l previous versions of
Properties		OK Cancel

9. Following selecting GPT (GUID Partition Table), the RAID volume will appear in the center field of the window. Right click the section of the RAID volume, and select **New Simple Volume** to format the RAID volume.

Computer Management (Lo	Volume	Layout	Туре	File System	Status	
System Tools Task Scheduler	(C:) (Disk 0 partition 3	Simple Simple	Basic Basic	NTFS	Healthy (Boot, Page File Healthy (Recovery Partit	, Crash Dump, Priman tion)
<ul> <li>Event Viewer</li> <li>Shared Folders</li> <li>Local Users and Grout</li> <li>Performance</li> <li>Device Manager</li> </ul>	<ul> <li>■ 糸統保留</li> <li></li> </ul>	Simple	Basic	NTFS	Healthy (System, Active	, Primary Partition)
Storage	- Disk 0					
Services and Application	Basic 111.79 GB Online	条統保留 500 MB NT Healthy (S	TFS ystem,	(C:) 110.47 GB N Healthy (Bo	ITFS bot, Page File, Crash Dur	848 MB Healthy (Recovery I
	Disk 1 Basic	7/////	/////		New Simple Volum	e
	1117.44 GB	1117.44 GE	5///		New Spanned Volu	ne
	Online	Unallocate			New Striped Volum	e
	I II.				New Mirrored Volu	me.
						inem .

10. As formatting is completed, the RAID volume will be shown in This PC,

Eject Areca ARC-1224-VOL#000 SCSI Disk Device

x<sup>A</sup> へ 🖱 ᄗ 🕼 ENG <sup>3:08 PM</sup> 12/22/2017 루

New Volume (D:)

Eject Base System Device

and it is ready for use.

evices and drives	(2)	0	
Local Dis	sk (C:)		New Volume (D:)
65.1 GB f	free of 110 GB		1.09 TB free of 1.09 TB
letwork locations (	(4)		

To eject the RAID volume on Windows, click the Safely Remove Hardware icon at the bottom right of the screen, and select **Eject SCSI Disk Device**.

It is strongly recommended when under RAID initializing or rebuilding, the sleep mode be disabled temporarily for speeding up the process. While computer goes in sleep mode, the NS370TB3 will go into sleep as well for energy saving; when computer wakes up, the initializing or rebuilding will resume automatically. Hence, the process can be completed in a short time without sleep mode interruption.

### 6. Thunderbolt 3 Board LEDs Status

On the Thunderbolt 3 board within the NA762TB3 storage, there are totally five LEDs. From top to bottom, they are: LED 2 (for 3V3), LED 3 (for 5V0\_ATX), LED 4 (for 3V3\_LC), LED 5 (for 0V9\_SVR), and LED 6 (for 0V9\_USB). The following information describes what the LEDs lighting status will be before NA762TB3 is powered on and after the Netstor unit is powered on.

#### **Power-off:**

Before NA762TB3 is powered on, only LED 2 will show green light, and the rest LED 3 through LED 6 will not show light.



#### **Power-on:**

After NA762TB3 is powered on, LED 2 through LED 5 will show green light. At this time, if a USB device or a monitor is daisy chained to the second Thunderbolt 3 port on the Netstor Thunderbolt 3 card, then LED 6 will show green light. On the other hand, provided the second Thunderbolt 3 port is not connected with any device/monitor, LED 6 will not show light.



If you have any questions, please contact your regional distributor, or Netstor Technology, Taiwan.



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