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# Thunderbolt 2<sup>™</sup> 4-Bay 3.5″ SATA Hard Drive Enclosure with RAID

S354SMTB2R



\*actual product may vary from photos

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- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
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CAN ICES-3 (B)/NMB-3(B)

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Instruction Manual

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# Introduction

## **Packaging Contents**

- 1X Thunderbolt 4-bay 3.5in Hard Drive RAID Enclosure
- 1X 2m Thunderbolt Cable
- 4x HDD bracket kits (2 brackets per kit)
- 3X Allen key
- 1X Universal Power Adapter (NA/EU/UK)
- 1X Instruction Manual

### **Recommended System Requirements**

• 1X Computer system with:

Available Thunderbolt port

Apple<sup>®</sup> Mac<sup>®</sup> OSX

Microsoft® Windows 8/8.1, Server 2008 R2 (32/64-bit)

• 4X 3.5" SATA Hard Drives

**Note:** 2.5" hard drives or solid state drives are supported when installed using a 2.5 in to 3.5 in drive adapter (sold separately)



# Product Diagram

### **Front View**

- 1. Drive Door
- 2. Drive LEDs
- 3. Faceplate screws



### **Rear View**

- 1. Built-in drive fan
- 2. Power switch
- 3. Power adapter port
- 4. Thunderbolt ports





## Getting Started Step 1. Installing your hard drives. WARNING:

Hard drives and storage enclosures require careful handling, especially when being transported. If you are not careful with your hard disk, lost data may result. Always handle your hard drive and storage device with caution. Be sure that you are properly grounded by wearing an anti-static strap when handling computer components or discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds.

1. Using the included Allen key, remove the four screws from the front faceplate of the Hard Drive Enclosure.





2. Grasp the drive door and gently pull it outward to reveal the drive bays.



3. On each of your four 3.5in hard drives, place HDD mounting brackets from each of your HDD mounting kits on either side of the drives, aligning the pegs with the hard drive mounting holes. Then with your hard drive labels facing upward, slide each of your four 3.5in hard drives into an available drive bay with the SATA connector facing inward, using the HDD bracket to align the slot.





4. Place the drive door back over the drive bays so that the four screw holes are lined up.



5. Using the included Allen key, drive each of the four screws back into the enclousre through the front place plate.





# Step 2. Connect the Thunderbolt Enclosure to your computer system.

1. Connect the included Thunderbolt cable from one of the Thunderbolt ports on the back of the enclosure, to an available Thunderbolt port on your computer system.



#### Notes:

- Either Thunderbolt port may be used to connect the enclosure to the host computer system. The remaining Thunderbolt port may be used to daisy chain to an additional device such as another enclosure, or Display.
- If daising chaining Thunderbolt 1 devices, please ensure the Thunderbolt Hard Drive Enclosure is the first down stream device, as Thunderbolt 2 performance will be throttled by a Thunderbolt 1 device.
- 2. Connect your power adapter from the power adapter port on the back of the enclosure into an available power outlet.
- 3. Turn on the enclosure, by placing the power switch in the "ON" postion .





### Step 3. Your Thunderbolt Enclosure is now ready to use!

The hard drives installed in your Thunderbolt Enclosure will now appear in in your computer systems just as if they were installed internally.



#### Notes:

• The Thunderbolt Enclosure supports Hardware RAID. By default the Thunderbolt enclosure is configured for JBOD RAID operation.



### Step 4 (Optional). Install the RAID management software (Marvell Storage Utility or MSU) on your computer to configure Your Thunderbolt Enclosure for Hardware RAID operation.

Note: The Thunderbolt enclosure also supports software RAID configured within the Windows and Mac OSX operating systems.

### Supported Hardware RAID modes:

### JBOD

In JBOD, no RAID configuration is set and all drives appear as individual disks.

### RAID1

In RAID1 two drives appear as an individual disk and data is written identically to both. This level protects your data from individual drive failure as a backup of all data is written instantly.

#### RAID0

In RAID0 two drives appear together as a larger individual disk the size of both drives combined. This level can improve your performance as read and write operations are performed in parallel on separate disks.

#### RAID 1+0

In RAID 1+0 two drives appear together as a larger individual disk the size of both drives combined, with the added benefit of improved performance. However, the data is then backed up to the remaining two drives for added security.

#### Hyper Duo

The HyperDuo can quickly access data from a Solid-State Drive (SSD), while safely storing all remaining data on SATA Hard Drives (HDD) with larger capacities, allowing for SSD performances at HDD capacity levels.



# Software Installation Mac OSX

1. Download the RAID Management Tool (MSU) from: StarTech.com/Support



 Open the "osx" folder from the main directory and launch the smu4.1.0.2021 installer file. Then double click the msu installer package.

••• ••		esx C	~
FAVORITES	Name	Date Modified	Size Kind
All My Files	msu4.1.0.2021.dmg	Feb 11, 2014, 9:02 PM	169.7 MB Disk Im
P AirDrop			
Applications			
Desktop			
Documents			
O Downloads			
DEVICES			
Test's Mac			
Yosemite			
🔛 HDD 2 🔺			
🔛 HDD 3 🔺			
🔛 HDD1 🔺			
📄 NO NAME 🛎			
TAGS			
Red			
Orange			

The windows installation wizard will walk you through the remaining installation steps. To complete the installation, click the Next button on each window, and accept the License Agreement when displayed.

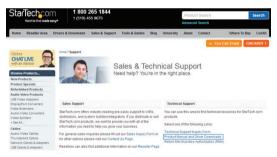


0 0 0	🥪 Install Marvell Storage Utility
•	Installing Marvell Storage Utility
Introduction	
Eicense     Destination Select	
Installation Type	Moving items into place
Installation	
Summary	burth intention of to
	6 0
	Install time remaining: Less than a minute
-	
1	Go Back Continue

4. Once installation is complete, click the **Finish** button. The Marvell Storage Utility has now been installed.

### Windows 8/8.1, 7, Vista (32/64 bit)

1. Download the RAID Management Tool from: StarTech.com/Support



2. Open the **"Win"** folder from the main directory and launch the **MSUSetupX.X.XXXX(.exe)** setup file. You may receive a Windows Security Warning alerting you that the application has been launched. Click **Run**.



Open File	Open File - Security Warning					
Do you want to run this file?						
	Name:         SST\Marvell Utility\win\MSUSetup4.1.0.2023.exe           Publisher:         Marvell Semiconductor           Type:         Application           From:         \\startechnet.com\dfs\users\_productmgmt\PRO					
•	Bun Cancel While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust. What's the risk?					

The windows installation wizard will walk you through the remaining installation steps. To complete the installation, click the Next button on each window, and accept the License Agreement when displayed.



4. Once installation is complete, click the **Finish** button. The Marvell Storage Utility has now been installed.





# Software Operation

The Marvell Storage Utility (MSU) is a browser-based management utility that can create and manage RAID and HyperDuo virtual disks using your Thunderbolt hard drive enclosure.

Note: Active Scripting or JavaScript must be enabled in your default web browser.

### **Create a RAID Array**

### WARNING!

In order to prepare your drives for RAID operation, this enclosure will configure newly installed drives into your desired RAID configuration. Please be aware that any data currently on the drives may be lost during this process. It is recommended that you back up all data prior to setting your RAID configuration.

1. Launch the MSU software using the icon on your desktop.



2. Once the application window is opened you will need to login.

a) Windows users require their Windows account user name and password to login.



b) Mac OSX users require their User name and password to login.

Note: In Mac OSX there are two user names: a friendly username, and an actual user name. Please note that the actual user name is required to login.

X	* Username  * Password Remember password	(DonalilaterRene)
	Login	

3. Select Adapter from the Marvell Storage menu, then hover-over the operation tab, and select Create RAID.

Marvell Storage	6	roptory Opera	tion		
Marvell Storage Management		Create	HyperDuo		Indify Restore
Service	Ma	Max PCIe Link Create RAID			1
Device	Cu	rrent PCIe L Quick	Create Wizard		
😑 💉 Malapter G	Su	pported MAID Modes	RAIDO	RAID1, HyperDuo (Capacity), HyperDuo	(Safe)
Physical Disks	Su	pported Stripe Size	32K 6	4K	
Physical Disk:		pported VD Cache	None		
Management	Ma	ximum PD per Adapte	r 6		
Management	Ma	ximum VD per Adapte	r 2		
	Ma	ximum PD per VD	2		
	· Ma	ximum Port Multiplier	1		-
Event Logs(0~0/Tota	Events:0	)		Clear	0000
Adapter Class		Time	Description		
	_				

4. The Create New VD window is now displayed, using the Select RAID Level drop down menu choose your desired RAID mode.

Marvell Storage	Property Opera	non	
Marvell Storage Management	Create New VD	Select RAID Levi	el: RAD 1 ·
Service     ByperDuo Service     ByperDuo Service     Prysical Disks     Prysical Disks po     Prysical Disks po		G8 G8)	ALC 1
Email Notify Setting	Max number of disks for Useable Capacity of Volu		2 Select disk(s)
-			Cancel
Event Logs(0~0/Total E	vents:0)	Save Clear	0000
Adapter Class	Time		Description
			4



Your physically installed hard drives will be represented on the Create New VD Window. Select each drive you would like included in your RAID array. Then click the Next Button.

Marvel	Storage	Property Opere	tion		
Marvell Storag	e Management	Create New VD	Select RAID Leve	el: RAD1 +	
© Service □ _ @ HyperDuo Service © Device ☆ _ # 25752586 ☆ _ Physical Disks		SATA 931.5 08 10 1 0 10 1 0 10 1 10 1 10 1 10 1 10	os (a)		
	Physical Disk: port ( Physical Disk: port 2 sotify Setting	Max number of disks for o Useable Capacity of Volur		2 331.4 UB	
				Next	Cancel
	S(0~0/Total Ever	nts:0)	Clear		0000
Adapt	er Class	Time		Description	

Note: The Next button will not be selectable, until the correct number of physical hard drives have been selected to build your desired array.

6. A default name will now be assigned to your RAID array. If you would like to rename the array, click the Name field and type your desired name. Then Select the Initialization method for your choice.

Marvell Storage	6	roperty Operate	<b>1</b>						
Marvell Storage Management		Create New VD							
Service     HyperOus Service     Device     Device	port (	tialize :	VD_R1_1 Fast Initialization No Initialization Fast Initialization No Read Ahead	-	RAID Set Size Stripe Size : Gigabyte Rour		931.4 GB 64K • None •		
		lected RAID Level : eable Capacity of Volume				R/ 931.	UD 1 4 GB		
					Previous	Submit	Cancel		
Event Logs(0~0/Total	Events:	)		lear		4	0000		
Adapter Class		Time			Description				
	_								

7. Next, select your desired stripe size using the Stripe size drop down menu. Then click the submit button.

Marvell Storage (g) starel Borge Management (g) Service (g) Service	Create New VD				
	ks ical Disk: port (	Name : Initialize : Write Cache Mode : Read Cache Mode :	VD_R1_1 Fast Initialization • Write Through(Reliable) • No Read Ahead •	RAID Set Size : Stripe Size : Gigabyte Rounding :	931.4) GB 64K • 32K 64K
Email Notify	Setting	Selected RAID Level : Useable Capacity of Volu	me i	Previous) Subr	RAID 1 931.4 GB
		(1) (12) (1	terns.	CITATION COMP	0000
Adapter	-O/Total Ever Class	Time	Save Clear	Description	0000
				C C	51

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Note: a number of advanced customizable options can also be changed such as Name, Initialize setting, Cache Modes, RAID Set Size, Stripe Size, and Gigabyte Rounding (It is recommended that they are left as their defaults).

8. Your RAID array has now been created. The Property tab will now be displayed for your newly created RAID array.

Marvell Sto	rage 🖌	Droponty Operat	ion	
Marvell Storage Mana	gement			Modify Restore
Service		ID	0	
Device	Nice	Name	VD_R1_1	
🚊 🦪 Adapter 0		RAID Level	RAID 1	
Victual Disks		Status	Functional	
	Disk 0: (1	Size	931.4 GB	
		Member Count	2	
Physical Disks		Stripe Size	64 K	
	al Disk: po-			
Physic	al Disk: po			
e III				
Event Logs(0-4	D/Total Events	.:0)	Clear	0000
Adapter	Class	Time	Descript	ion

## Create a HyperDuo Array

### WARNING!

In order to prepare your drives for HyperDuo operation, this enclosure will configure newly installed drives into HyperDuo configuration. Please be aware that any data currently on the drives may be lost during this process. It is recommended that you back up all data prior to setting your HyperDuo configuration.

1. Launch the MSU software using the icon on your desktop, and login.



Select Adapter from the Marvell Storage menu, then hover-over the operation tab, and select Create HyperDuo.

Marvell Stora		Property Operat	ion				
Marvell Storage Manager	ment	Create	HyperDuo		dite	Restore	7
Service		Max PCIe Link Create	RAID reate Wizard				-
Hysical Disk: port 0		Supported MAID Modes	RAID	RAID1, HyperDuo (Capacity), HyperDuo (S	Safe)		1
		Supported Stripe Size	32K 6	4K			U
Physical Disk: port (		Supported VD Cache	None				
		Maximum PD per Adapter	6				
Email Notify Sett	ing	Maximum VD per Adapter	2				
		Maximum PD per VD	2	2			
		Maximum Port Multiplier	1				•
Event Logs(0~0/	Total Events	s:0)		Clear	0	000	5
Adapter	Class	Time		Description			
							*
							٠



The Create HyperDuo Screen is now displayed. Using the Mode drop down menu, select Safe or Capacity depending on your desired mode (a description for both modes is listed below) then click the submit button.

Mode	Description
Safe	Creates an array for optimal fault tolerance
Capacity	Creates an array for optimal performance. (Capacity Mode will delete all content currently saved on your drives)
Marveil Storage Carlor and Board Responses 	Property         Countilitie           Sto         Sto           Sto         State 1 234.4 08           HOD         Castle Stat(08)         Threabuild(%)           HOD         Castle Stat(08)         Threabuild(%)           HOD         Castle Stat(08)         Threabuild(%)           HOD         Castle Stat(08)         Threabuild(%)
Event Logs(0~0/Total Ever	store) Clear, Clear
Adapter Class	Time Description
	(i) *

Note: (Safe only) If you would like to keep the data on your hard drive ensure the Keep Original Data box is checked.

4. Click the Submit button.

Marvell Stora	ge P	roperty Optero	Hom					
Marvell Storage Manage	ment Cr	Create HyperDuo						
Service		SSD		Size : 238.4 G8		Î		
Physical Disks		0		Cache Size(G8)	Threshold(%)	Mode	Keep Original Data	
Management	na	HD 1 (SATA 931.5 GB)		230.4	90	Safe Safe Capacity	8	
						Submit	Cancel	
Event Logs(0~0/	Total Events:0	)	(Sava)	Clear			0000	
Adapter	Class	Time			Description			
							d	

5. Your HyperDuo array will now be created. The Property tab will now be displayed for your newly created HyperDuo array.

### Note: It can take up to 30 minutes for the HyperDuo array to be created.



### **Managing Your Array**

### View Properties of your RAID/HyperDuo Array

1. Launch the MSU software using the icon on your desktop, and login.



2. Select your desired array from list of Virtual Disks in the Marvell Storage Menu. The Property tab is now displayed, listing the Properties for your array.

Marvell Sto	rage 🖌	Dropping Operat	ion	
Marvell Storage Mana	agement			Madily Castore
Service		D	0	
Device	rvice r	iame	VD_R1_1	
📩 ø Adapter 0		AID Level	RAID 1	
Virtual Disks		Ratus	Functional	
	Disk 0: (1	lize	931.4 GB	
		4ember Count	2	
Physical Disks		Rripe Size	64 K	
	al Disk: po-			
	cal Disk: po			
Management	-			
Event Logs(0~	0/Total Events	:0)	Clear	0000
Adapter	Class	Time	Descri	iption

#### **Rename Your Array**

1. To rename your Array select the Name field on the Property tab and type your desired Name in the field. Then click the Modify button.

Marvell Sto	orage	Dioposity Opera	tion	
Marvell Storage Marv	agement .			Modify Restore
Service		ID	0	
BurgerDuo Service		Name	TEST	
		RAID Level	RAID 1	
	Virtual Disks  Virtual Disks  Virtual Disks  Physical Disk  Physical Disks		Functional	
			931.4 GB	
			2	
Physical Disk			64 K	
	cel Disk: po cel Disk: po			
Event Logs(0~	0/Total Eve	ents:0)	Save Clear	0000
Adapter	Class	Time	Description	
				i.

2. Your Array has now been renamed.



### **Delete Your Array**

#### WARNING!

Deleting your RAID array permanently erases any data on your virtual disk. However, you can choose to keep partition information on the virtual disk.

1. Hover-over the Operation tab at the top of the Property page and select Delete.

	arvell Ste		Property Opera	tion	
		agement .	Delete		Modify Restore
⊖_Service ⊖_ByperOuo Service ⊖_Device ⊖_Vitual Disks ⊖_Vitual Disks			ID	b	
			Name	HyperDuc_0	
			Threshold	90 %	
			Mode	HyperDuo, Safe	
			Status	Functional	
Physical Disk		Size	931.5 GB		
	Physical Dis		Member Count	2	
		ical Disk: po ical Disk: po			
					0000
Even	Adapter	-6/Total Even Class	Time	Save Clear Description	0000
0	0	VD Event	10/15/2010 15:14	Initialization data on HyperDuo 0 completed	
ŏ	0	VD Event	10/15/2010 15:14	Rebuild disk on virtual disk 0 completed	

- 2. A warning will be displayed alerting you that all data on the virtual disk will be erased. Select OK to acknowledge the warning.
- 3. An additional pop-up message warning you that drive data will be lost is displayed. Click Ok continue.
- 4. A message will now be displayed asking: Do you want to delete the partition information if this has one? Click OK to delete the partition information or Cancel to keep the partition information stored on the drive

### Customize Your HyperDuo Array

### Add Folders for HyperDuo Optimization

1. Launch the MSU software using the icon on your desktop, and login.



2. Select HyderDuo Service from the Marvell Storage menu, then select Advanced. The customize Wizard will be displayed.



Marve	Il Storage	Sched	ule		
Marvell Stor	age Management	Customize Wizard	3	x ad Cocupied	Flexible Available
Service		Please select folders y	ou want add to group:		
	rDuo Service	Address: CIUsersWARV	ell'test\		
Device	14r 0	AcoData		re (KB)	Status
	al Disks E	Contacts		73,732	
é-1	HyperDuo: (Hype	C Occumenta		896	
	Physical Disk	E Comitonts			
Phys	ical Disks	Caravorites     Caravorites     Caravorites			
	Physical Disk: po	C CMusic			
	Physical Disk: po "			-	
-		Saved Games			Submit
	gs(1~6/Total Eve		Next Cancel		0000
Ada	pter Class		Next Cancel	on	
0	VD Event	10/15/2010 15:14	Initialization data on HyperDuo 0 complet	ted	
0	VD Event	10/15/2010 15:14	Rebuild disk on virtual disk 0 completed		

Navigate through the folders and place a check next to the folders you would like to add.

# Note: You can navigate into each folder by clicking the folder name. Or return to the parent directory by clicking the green button with white arrow.

- 4. Click Next to add selected folders.
- 5. Review the folders and click the red X beside a folder or file to remove it.
- 6. Click the submit button to save changes.

### **Change Method of Optimization**

- 1. Launch the MSU software using the icon on your desktop, and login.
- 2. Select HyderDuo Service from the Marvell Storage menu.
- 3. Place a check in your desired method for optimization. A description of each optimization method is listed below.

Mode	Description
Auto	Select Auto to have the Software manage the optimization of a folder or program.
Cache	Select Cache to manually select a folder or program for optimization.
Neither	Select neither to specify that a folder or program should never be optimized.



4. Click Submit to save your changes.

	arvell Sto	orage	Program	Scl	nedule		
	ell Storage Man	agement .	Valid Vol	umes 🔺		Fixed Cocup	ied Flexible Availab
Servi			Volume		SSD Used Percer	tage	
Device     Adapter 0			. c	c 99%			
			Auto	Cache	Program	Size (KB)	Status
	Virtual Disks				Hy Documents	20	
		rDuo: (Hype	R.	8	Harvell Storage Utility V4	73,460	Accelerated
		hysical Disk hysical Disk	12		narvell 91xx driver	896	Accelerated
8	@Phys	ical Disk: po					-
	e Phys		Ana	lyze (	Advanced		Submit
Even	-	-6/Total Eve		lyze (	Advanced Save Clear		
	-			Time	Save Clear	cription	
	t Logs(1-	-6/Total Eve	nts:6)		Save Clear Des		Submit

5. An alert window will be displayed, click OK to begin the optimization process.

M	arvell St	orage	Program	Sc Sc	hedule				
Marve	il Storage Ma	nagement .	Valid Volu	Valid Volumes A Pixed Occupied Plexible Availa					
Servi			Volume	folume SSD Used Percentage					
- Device			.c	15	15 995				
	Adapter 0		Auto	Cache	Program	Size (KB)	Status		
	Virtual Disk				My Documents	20	Decelerating		
		erDuo: (Hype	12		Marvell Storage Utility V4	73,732	Waiting to be accelera		
		Physical Disk Physical Disk	1		marvell 91xx driver	896	Waiting to be accelera		
	Physical Dis								
	(Phy	sical Disk: po	i e opt	imize : 0 %	Current: My Documents				
					-deanced	Pause			
	t Logs(1	~6/Total Eve	nts:6)		Save Clear		0000		
	Adapter	Class		Time	Des	cription			
0	0	VD Event	10/15	5/2010 15:	14 Initialization data on HyperDuo 0 com	pleted			
0	0	VD Event	10/15	5/2010 15:	14 Rebuild disk on virtual disk 0 complete	ed			

### **View Properties of your Physical Hard Drives**

1. Launch the MSU software using the icon on your desktop, and login.



2. Select your desired physical disk from list of Physical Disks in the Marvell Storage Menu. The Property tab is now displayed, listing the Properties for your disk.



Marvell Storage	Property	Operation		
Marvell Storage Management	4			
Service	ID		0	
HyperDuo Service	Туре		SSD	
Adapter 0	Model		C300-MTFDDAC256MAG	
Physical Disks	Size		238.5 GB	
Contraction of the			Unconfigured	
Management	Current spee	d	6Gb/s	
Email Notify Setting	Adapter ID		0	
	Parent Device		HBA	
-	Parent Device	Port ID	0	
**		10111		0000
Event Logs(0~0/Tota		<u>cauce</u>	Clear	0000
Adapter Cla	55 TI	me	Description	

Note: Your physical disk properties cannot be edited.

### **Erase Foreign RAID Configuration**

### WARNING!

When erasing previously configured RAID Data, this enclosure will erase all drive data. Please be aware that any data currently on the drives will be lost during this process. It is recommended that you back up all data prior to erasing previously configured RAID data.

RAID controllers store data on any drive within a RAID array. If your drives have been previously configured in a different RAID array, this data must be deleted before a new array can be built. Please follow the below steps to erase previously configured RAID data.

1. Select your desired physical disk from list of Physical Disks in the Marvell Storage Menu. Hover-over the Operation tab and select Erase Foreign Configuration.

Marvell Storage	Property	Operation		
Marvell Storage Management		Erase Foreign Configuration		
E Service	ID		0	
- Bevice	Туре		SATA	
Adapter 0	Model		WD1002FAEX-00Z3A0	
Physical Disks	Size		931.5 GB	
Physical Disk: p			Foreign	
Management	Current speed	(	6Gb/s	
Email Notify Setting	Adapter ID		0	
	Parent Device		HBA	
	Parent Device	Port ID	1	
Event Logs(0~0/Total	Events:0)	Savo Clear		0000
Adapter Clas			Description	

2. Your previously installed RAID data will now be deleted.



# **Technical Support**

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For the latest drivers/software, please visit www.startech.com/downloads

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