

# SATA 3 to mSATA SSD & SATA 7pin RAID Assembly Guide

## Features

- Build in ASM1092R high performance processor
- Fully hardware-accelerated RAID Engine
- Supports RAID levels: 0 / 1 / JBOD
- Build in SATA 7-pin connector x2
- Build in mSATA Female connector x2
- PWM synchronous buck converter Power IC x2
- 3A maximum output current
- Short circuit protection
- In-rush current suppression
- Thermal shutdown protection
- ESD HBM (Human Body Mode)/2KV

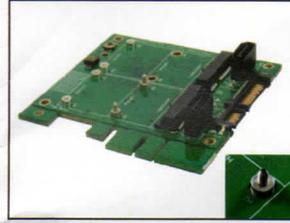
## Before Assembly

- Please read through the installation guide first.
- Please check the accessory list before the integration. Contact your local distributor if you find any parts missing.
- Please retain the original package if you need to return the package for RMA.

## Assembling Accessories

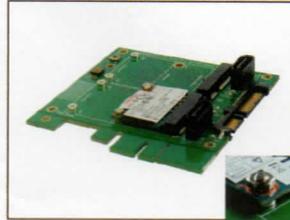
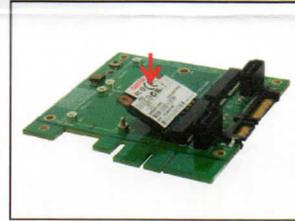
		
M2x6 Screw*4	(for Full Size) M2x3 Screw*4	M2 Nut*4
		
Copper Nut H: 4.0mm*4	(for Bracket) M3x3 Screw*8	(for Bracket) M3 Copper Nut *4
		
3.5" Bracket*1	Adapter*1	
<b>Required Tools (Not included)</b>		
All you need to assemble this unit are one screwdriver.		
		

## Assembly



**STEP 1.**  
**Make mSATA SSD Stand**  
Put copper nut on the same side of the mSATA connector.  
Fix with M2x6mm screw from bottom to top of the adapter.

**STEP 2.**  
**Insert mSATA SSD**  
Insert mSATA SSD into mSATA 52pin connector.  
Press down mSATA SSD and aim to the copper nut hole.

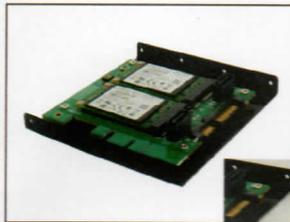


**STEP 3.**  
**Fix mSATA SSD**  
Use M2 nuts to fix mSATA SSD on the adapter, namely complete the assembly.

**Repeat Step1~3 for the 2nd mSATA SSD.**

If your mSATA SSD is Full Size, pls ignore STEP 1~3.  
Use M2x3 Screws 2pcs to fix mSATA SSD directly.

**STEP 4.**  
**Assembly 3.5" Bracket**  
Put M3x3 screw from bottom side to top side of 3.5" frame and fix with M3 copper nut.



**STEP 5.**  
**Fix Adapter & 3.5" Bracket**  
Fixed assembled M.2 SSD and Adapter on 3.5" frame with M3x3 screw.

## RAID mode setup :

- Set RAID mode, you must install both 2 devices; otherwise, it is impossible to set RAID mode.

### Set RAID 0 mode :



1	2	3
ON	ON	OFF

Switch SW2 as ON-ON-OFF.  
Push SW1 Button to complete the setup.

Start PC, BIOS should show RAID 0 mode (ASMT109x-Fast).

### Set RAID 1 mode :



1	2	3
ON	OFF	ON

Switch SW2 as ON-OFF-ON.  
Push SW1 Button to complete the setup.

Start PC, BIOS should show RAID 1 mode (ASMT109x-Safe).

### Set JBOD mode :



1	2	3
ON	ON	ON

Switch SW2 as ON-ON-ON.  
Push SW1 Button to complete the setup.

Start PC, BIOS should show JBOD mode (ASMT109x-Volume).