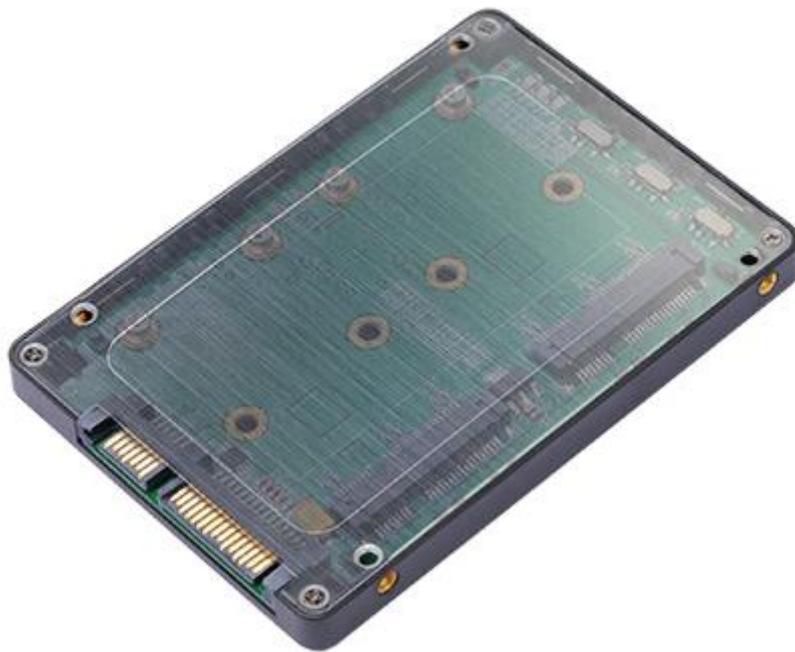


SSDMR User Guide



Atalog

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TEL:+886-2-7736-0128
FAX:+886-2-7736-0126
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1. Production Description:

SSDMR adapter enables two mini-SATA SSD as a 2.5" HDD by RAID function in the laptop PC or desktop PC. Once installed, the mSATA SSD behaves like the 2.5" HDD in some RAID mode with faster or more reliable RAID functions, low power consumption, fast access time and completely shock resistant.

Main Features:

- **No any drive to install.**
Set up for this adapter is simple—just connect SATA 15pin powered SSDMR directly to your computer or at the end of a SATA device chain with a SATA cable—that's it. There's no device driver to install for SSDMR adapter itself.
- **Fast Interface.**
Support Hi-Speed SATA3 / 6Gbps mass storage interface.
- **RAID mode.**
JBOD (Port Multiplier), RAID0 (Striping/Fast), RAID1 (Mirror/Safe), Span (Big).
- **Speed display**

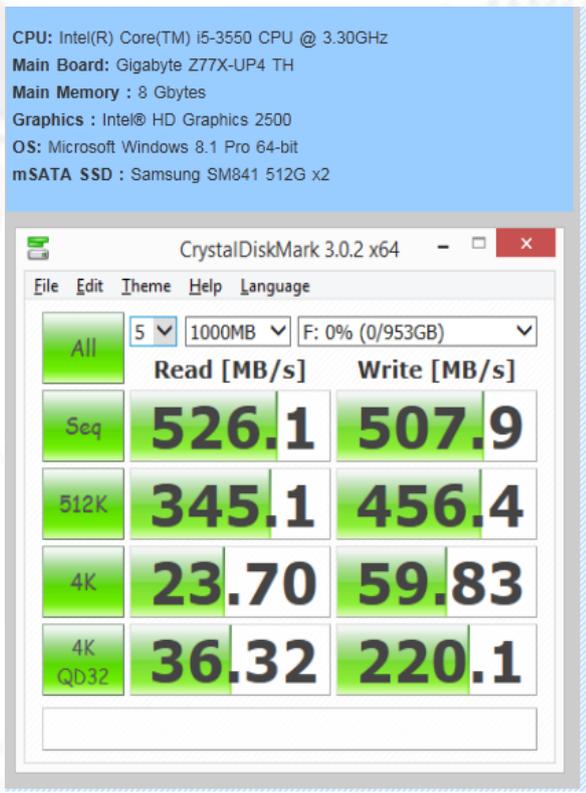
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2. Production Specification:

You can change working mode through the switch

	GUI	JBOD	RAID0	RAID1	Span
SW1	1-2	2-3	2-3	2-3	2-3
SW2	X	1-2	2-3	1-2	2-3
SW3	X	1-2	1-2	1-2	2-3

Note: GUI MODE NO SUPPORT.

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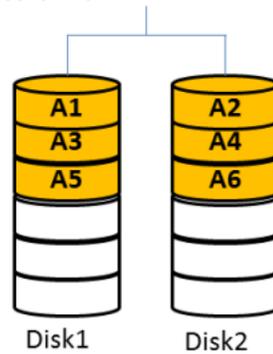
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RAID0 (Fast) mode

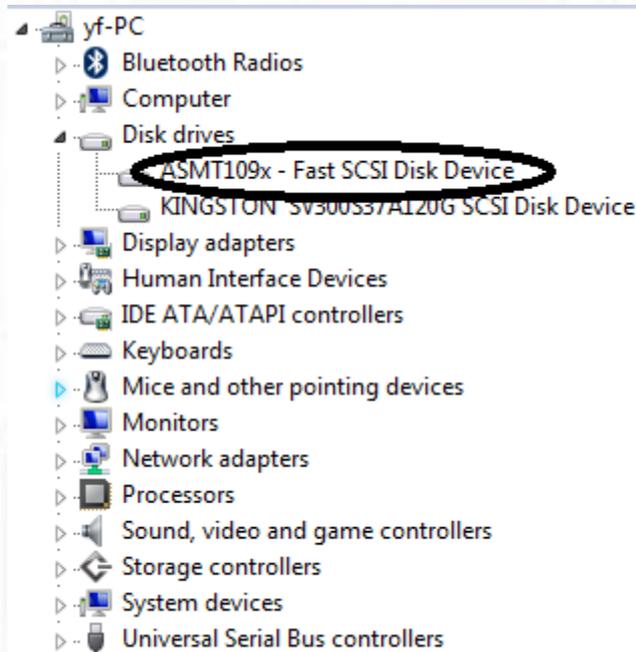
RAID0 mode is used for performance enhancement with block-level striping, but there is no redundancy for fault tolerance. The HBA will see only one virtualized drive.

□



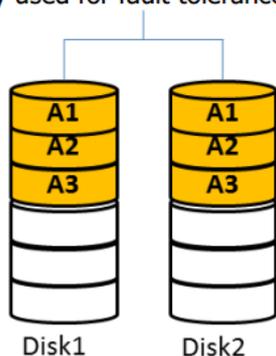
Performance Advance

Figure 1: RAID0 data striping



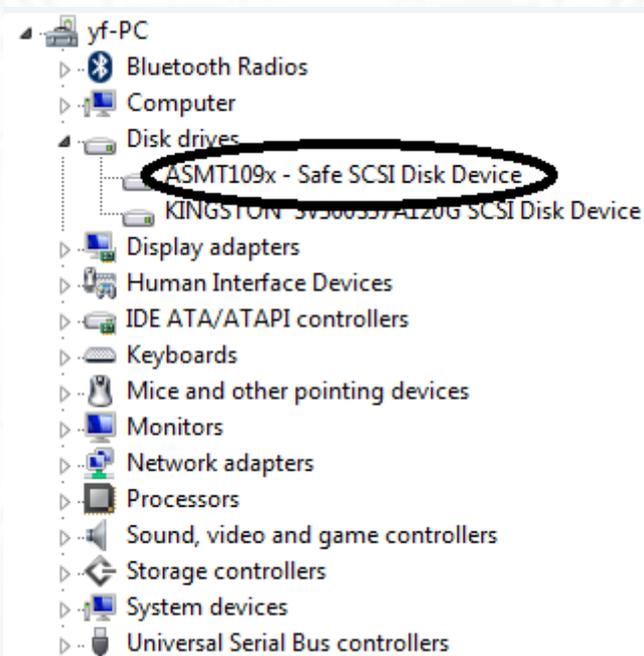
RAID1 (Safe) mode

In RAID1 mode, the data is written into two disks producing a mirrored set. Like RAID0 mode, the HBA will also see a single virtualized drive. This mode is usually used for fault tolerance application to ensure the data is reliable.



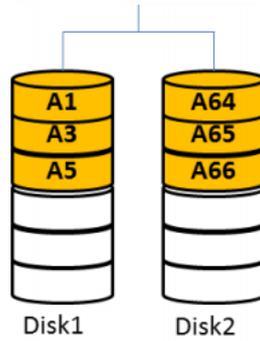
Fault Tolerance

Figure 2: RAID1 data mirror



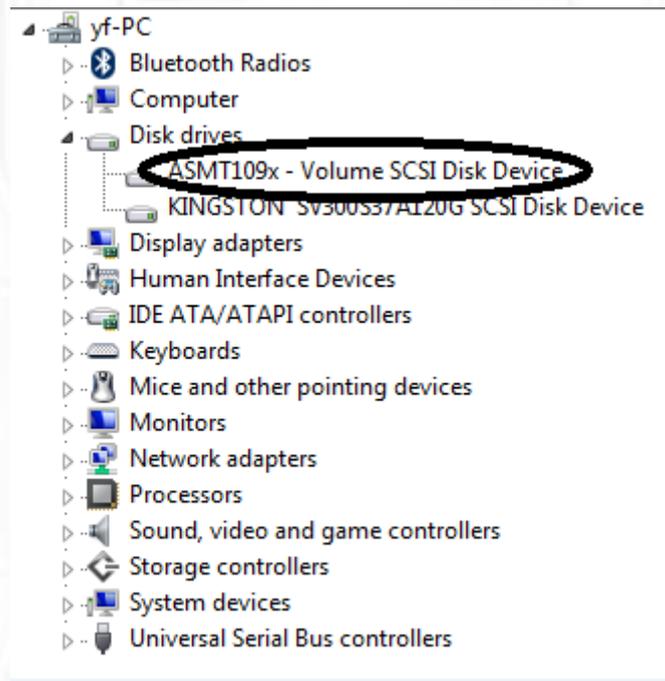
SPAN (BIG) mode

The SPAN mode combines multiple physical disk drives into a single virtual disk. The disks are merely concatenated together, but without performance enhancement or data redundancy.



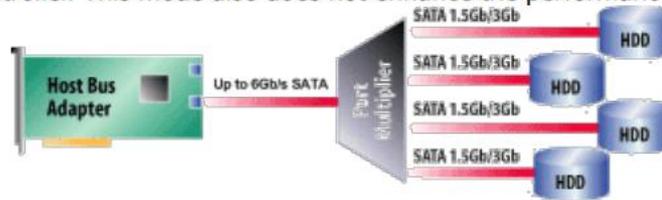
Best Usage Rate

Figure 3: SPAN



JBOD mode

In JBOD mode, the controller may pass through the command and data from host/device ports to the device/host ports directly. The application in this mode should connect with HBA as port multiplier aware to be able to access multiple drives after this controller. This mode also does not enhance the performance or support data redundancy.



SATA PM connectivity: one port, one cable, four drives; 4-ports = 16 drives

Figure 4: Port Multiplier

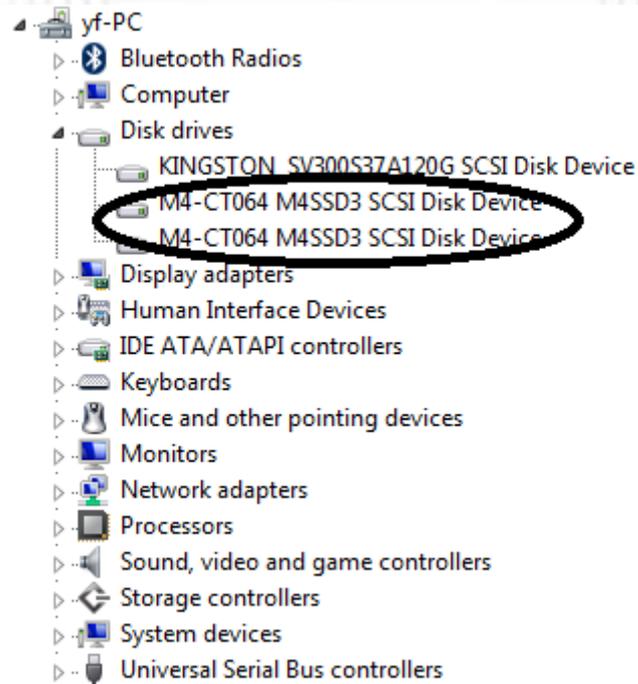
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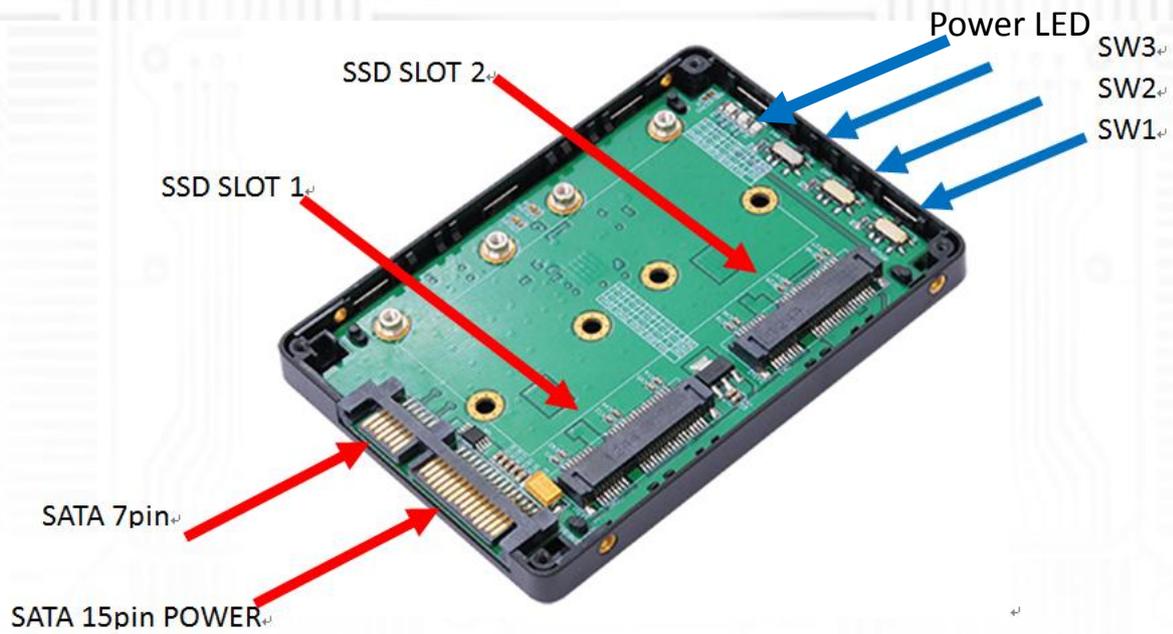
You may see two disk devices; It will display disk model which you put into SSDMR adapter;

Note: If SATA host controller does not support port multiplier, only one of two mSATA SSDs will be detected.

3.Installation Guide:

A.PCB interface and switch display;





B: You should set the work mode through the switch; Every time if you want to change working mode that you must reboot the system;



C: Install SSD;

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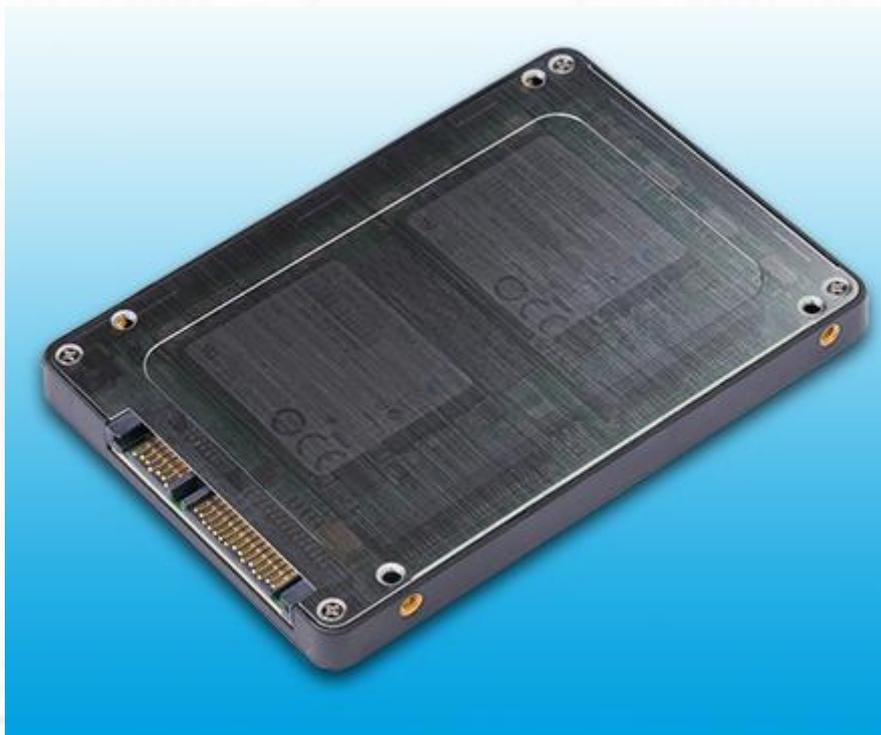
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D: Install metal cover;



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4.Usage Example

Example on ASUS windows7:

Connect SSDMR to the Motherboard with SATA interface by using SATA cable and SATA power 15pin cable;

A: SSD(Crucial m4 mSATA 64G) 2pcs;SSDMR 1pcs;



B: Connect SATA 15pin powered SSDMR directly to the computer.

Work in FAST mode

Device manager

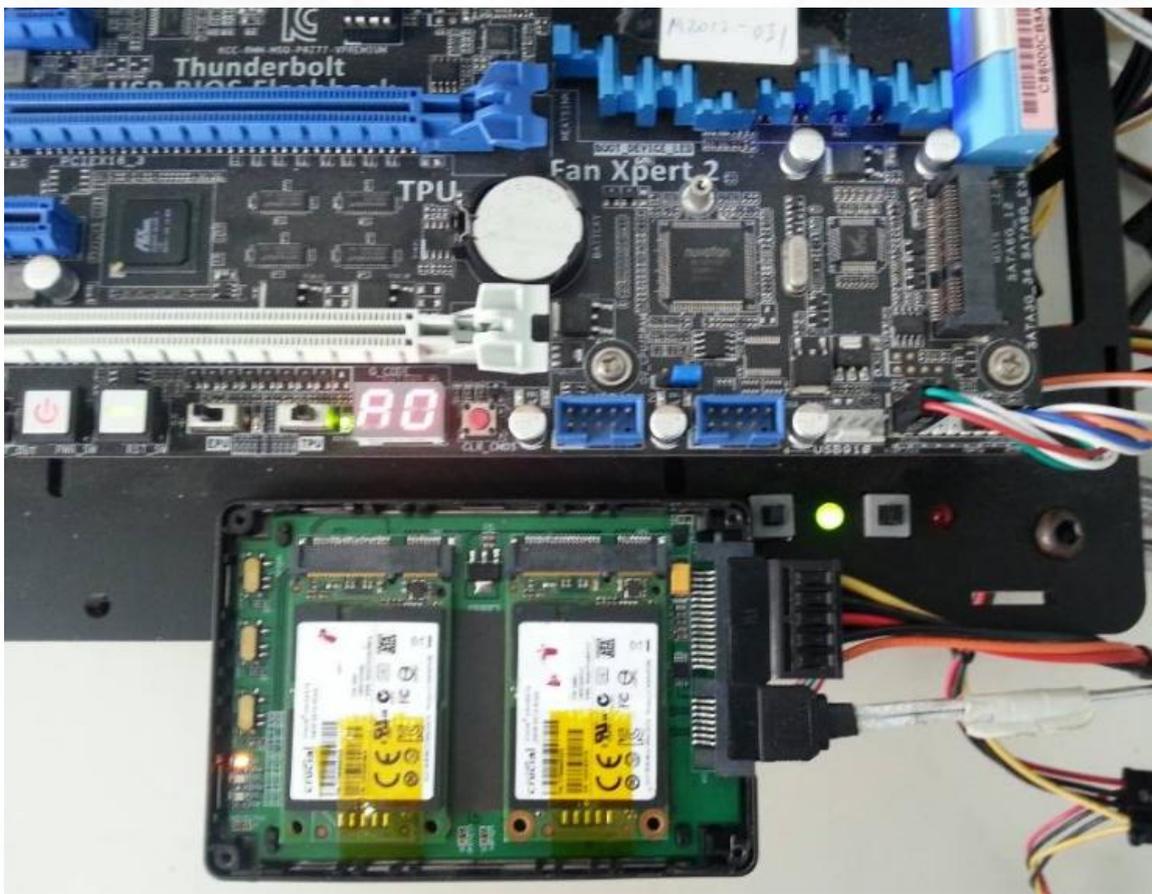
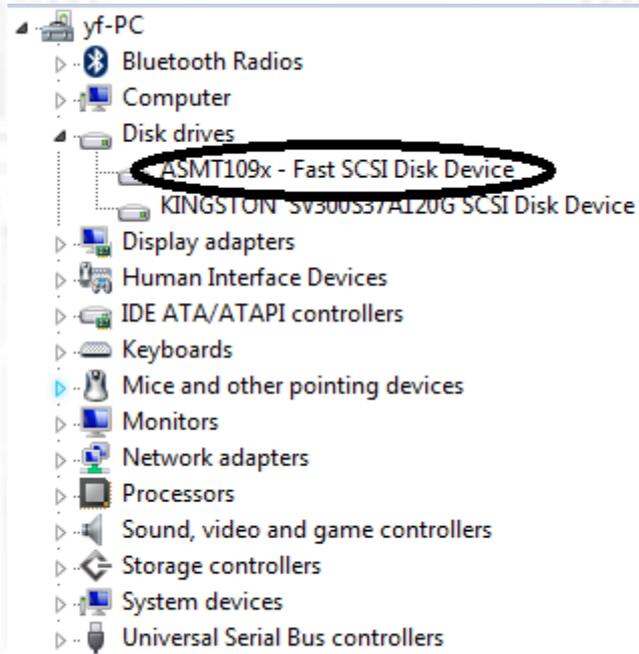
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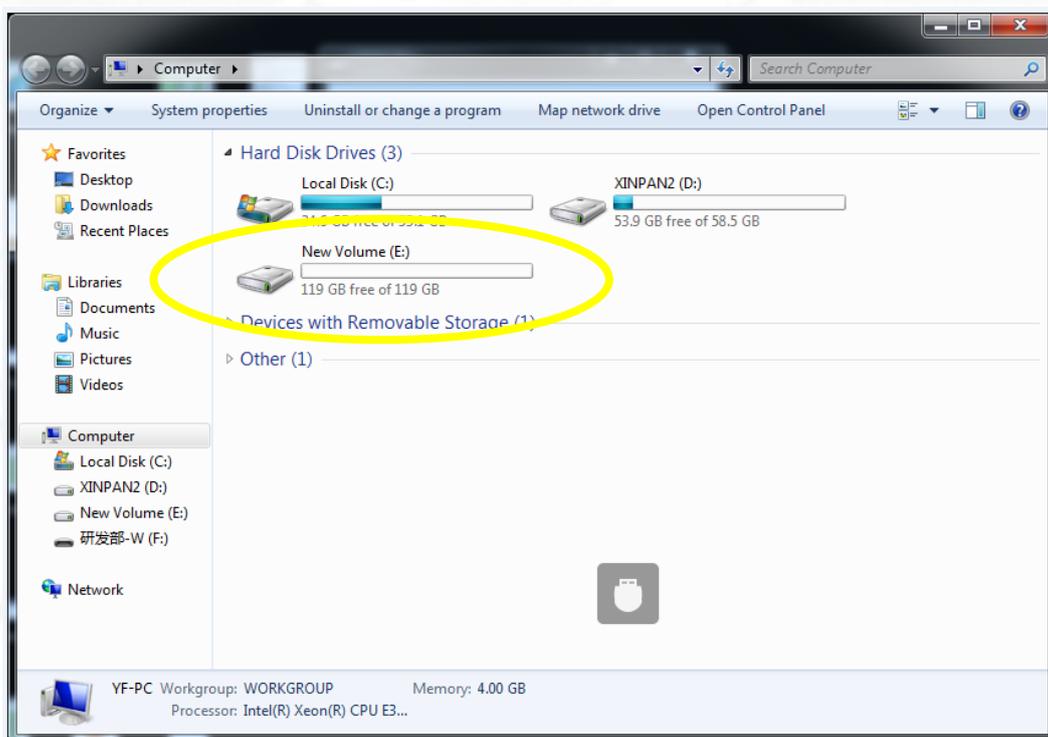
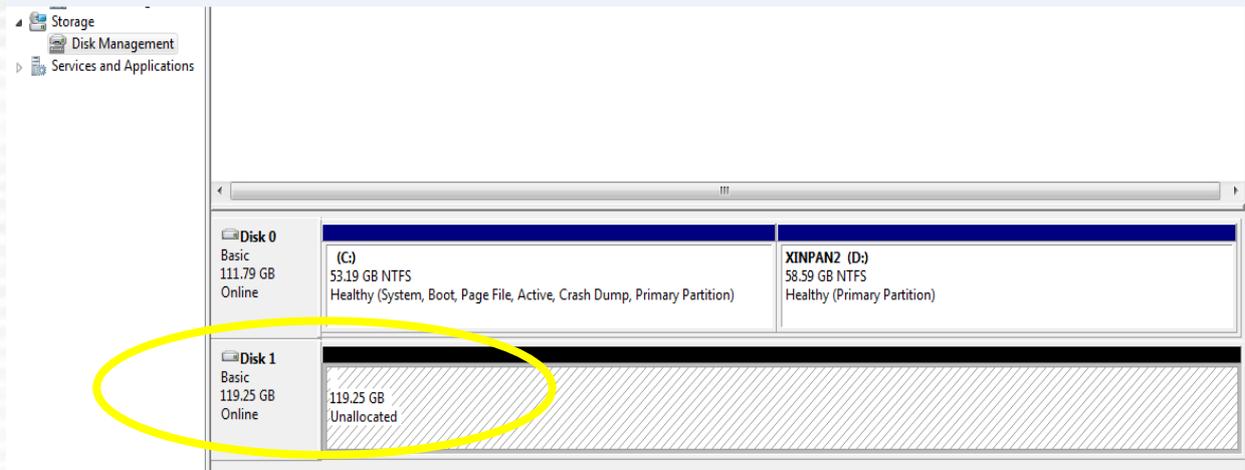
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Check disk management; If disk is no format; You have to format the disk so that you can see inside of the computer;

Note: After format, all of data will be lost.



NOTE: If SSDMR is working in the fast or safe mode; Two pieces of SSD best is the same type;

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