User's guide for RM5-R5

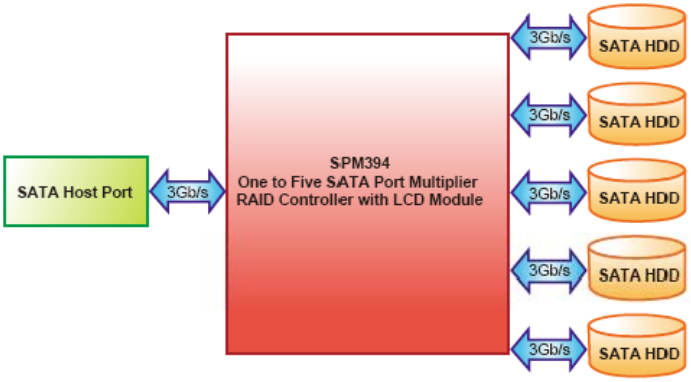
Introduction

EBOX-R5 is one to Five SATA Port Multiplier RAID Controller with LCD Module. It is designed to provide SATA port expansion, data protection and performance aggregation at various applications.

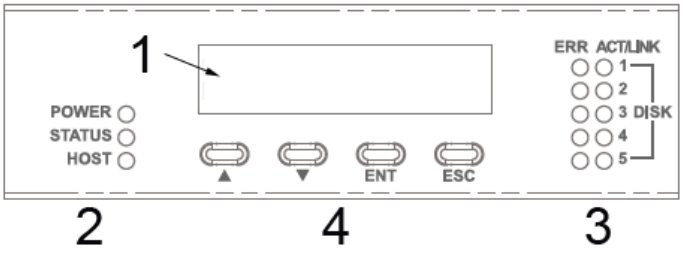
EBOX-R5 uses market-proven Multi-port Serial ATA PHY technology and proprietary storage processor to provide very high efficient SATA RAID operation. With an easy configuration scheme, the device can be a pure port multiplier which provides SATA port expansion just like a SATA Hub, or hard-drive performance booster which provides a high performance device seen by host controller or hard-drive data protector which automatically backup data to prevent data loss from hard-drive damage. EBOX-R5 also has advance mode to provide both benefit of performance boost and data protection.

EBOX-R5 is a self-contained storage processor chip which completely frees up the main CPU loading and the SATA ports comply with eSATA specification, making it suitable for use in both internal system and external storage applications.

Application



Overview

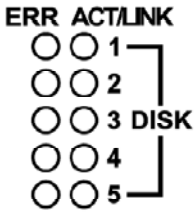


LCD Screen
1. Monitor

Status LEDs
2. Power/RAID/Host Status
3. Device Status (Error, Activity/Link)

Buttons
4. Up, Down, Enter, ESC

Status LEDs



Device Error
Blinking: Error or rebuilding
Off: Normal

Device Activity/Link
On: Link
Off: unlink
Blinking: Activity

Power Status
On: power is on
Off: power is off

RAID Status
On: RAID Degraded or RAID Error
Off: Normal
Blinking: Rebuilding

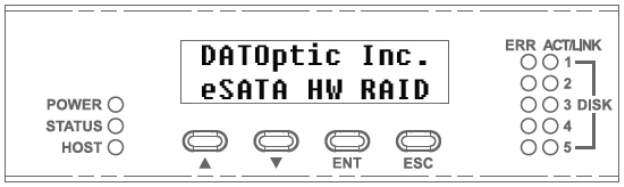
Host Status
On: Link
Off: unlink
Blinking: Activity

Configure RAID Subsystems on LCD:

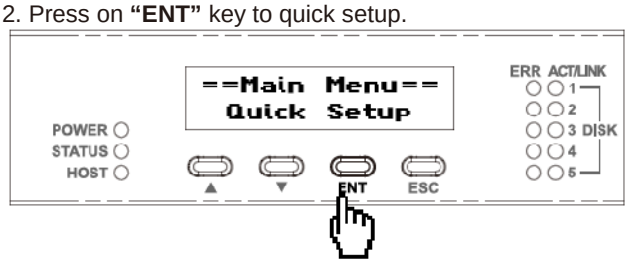
Be aware this will destroy all your existing data on these drives, so make sure you have backup!

Key	Function	
Up Arrow	▲	Use to scroll the cursor Upward/Rightward
Down Arrow	▼	Use to scroll the cursor Downward/Leftward
ENT Key	ENT	Submit Select ion Function (Confirm a selected Item)
ESC Key	ESC	Return to Previous Screen (Exit a selection configuration)

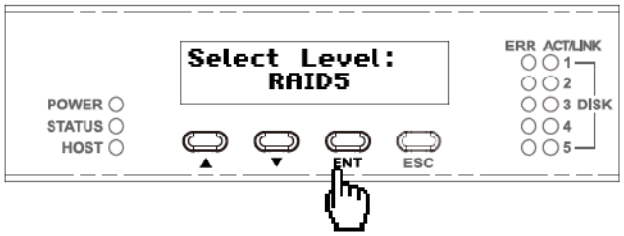
1. Turn on the SPM394, the main menu appears on the LCD screen.



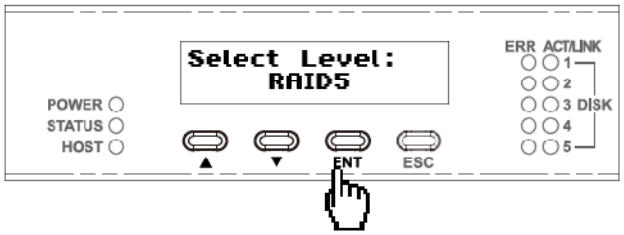
2. Press on **"ENT"** key to quick setup.



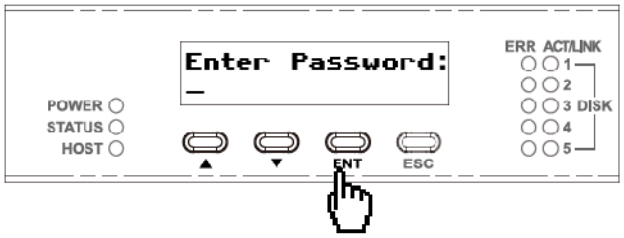
3. Press on **"ENT"** key to create on RAID.



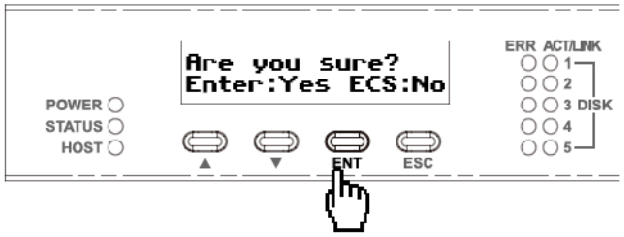
4. Using up or down arrow key, select RAID level and press **"ENT"** key to confirm it.



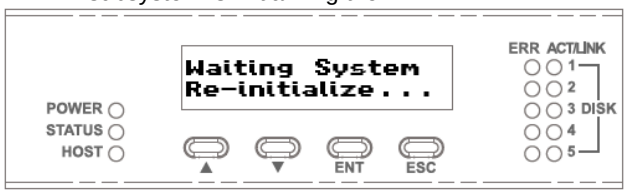
5. Using up or down arrow key, set your password or press **"ENT"** key to skip password.



6. Press **"ENT"** key to create RAID.



7. RAID subsystem is Initializing the RAID.



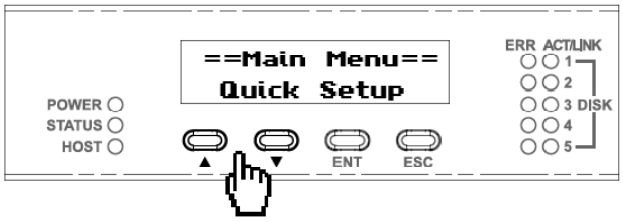
8. Completed.

Change RAID Subsystems on LCD:

Be aware this will destroy all your existing data on these drives, so make sure you have backup!

Key	Function	
Up Arrow	▲	Use to scroll the cursor Upward/Rightward
Down Arrow	▼	Use to scroll the cursor Downward/Leftward
ENT Key	ENT	Submit Select ion Function (Confirm a selected Item)
ESC Key	ESC	Return to Previous Screen (Exit a selection configuration)

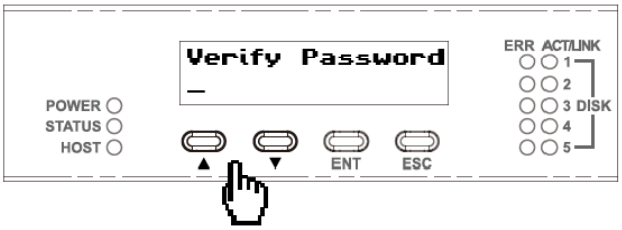
1. Press up or down arrow key to select "**Quick Setup**".



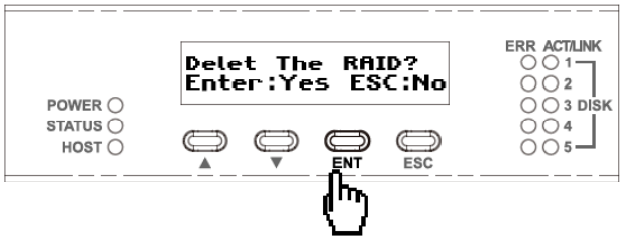
2. Press **"ENT"** key to enter "**Quick Setup**".

3. Press down arrow key to select "**Delete All RAID**".

4. Using up or down arrow key, input your password if you set one.



5. Press **"ENT"** key to delete the RAID.

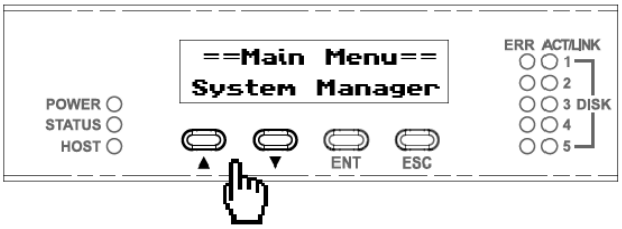


6. Press **"ENT"** key to create RAID.

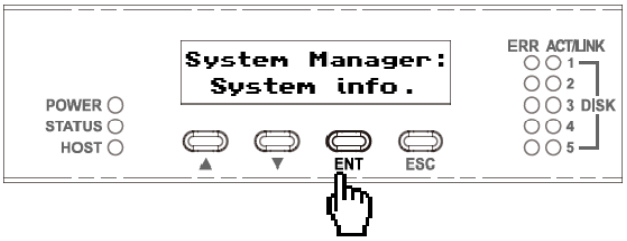
7. Completed.
If you want to configure RAID please refer to "Configure RAID Subsystems on LCD".

Check RAID Subsystems on LCD:

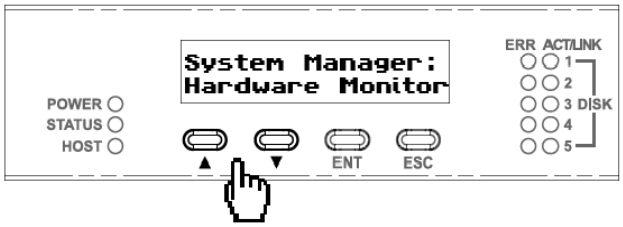
1. Press up or down arrow key to select "**System Manager**".



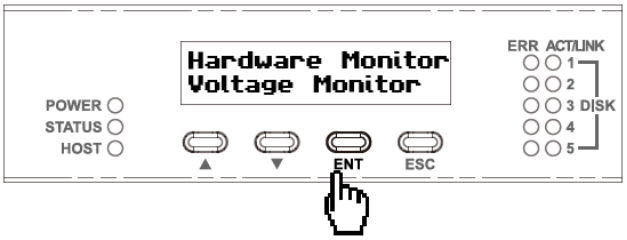
2. Press **"ENT"** to enter "**System Manager**".



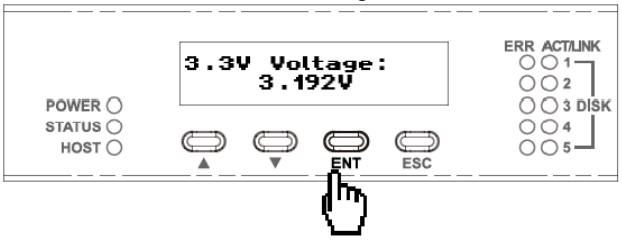
3. Press up or down arrow key to select "**Hardware Monitor**".



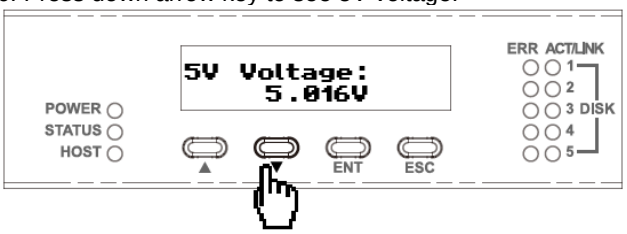
4. Press **"ENT"** to enter "**Hardware Monitor**".



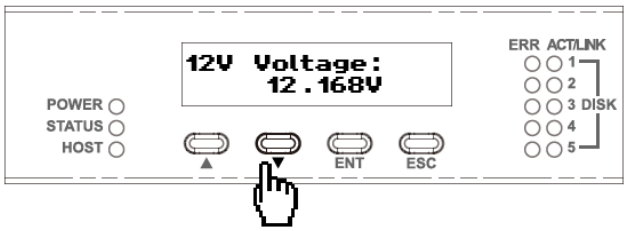
5. Press **"ENT"** to see 3.3V voltage.



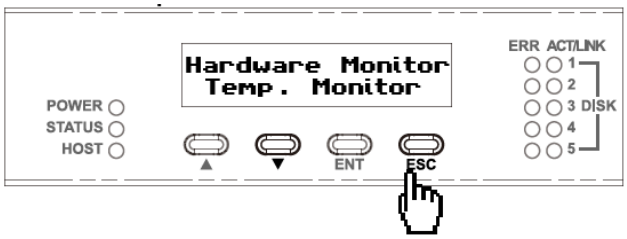
6. Press down arrow key to see 5V voltage.



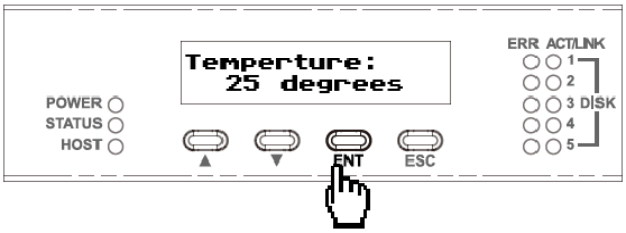
7. Press down arrow key to see 12V voltage.



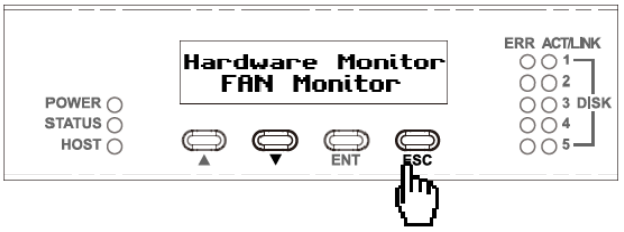
8. Press "**ESC**" key and down arrow key to select "**Temp. Monitor**"



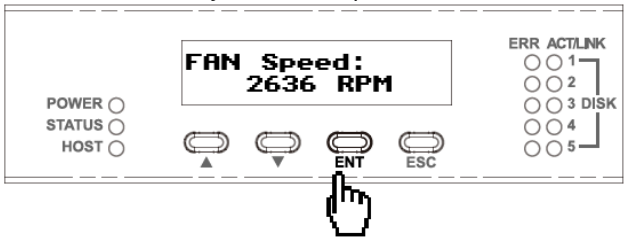
9. Press **"ENT"** key to see temperature of thermal sensor.



10. Press "**ESC**" key and down arrow key to select "**Fan Monitor**".



11. Press **"ENT"** key to see fan speed.



eBOX-R5 Flow Sheet of LCM