

# EP-2123-UA-S EP-2123-UA-R

2U 12bays, USB 2.0, eSATA, iSCSI- SATA II RAID Subsystem



## **Unsurpassed Value**

- Most cost-effective SATA II RAID Subsystem

## **Application Flexibility**

 Multiple interface supportted, extends useful life by adapting to future IT requirements

# Easy Installation, upgrade & Maintenance

Provide a fast and easy way to install and upgrade the storage.
 Simplified maintenance reduces ongoing IT labor costs

## **Exceptional Manageability**

- Graphic User Interface (GUI) carry out user easy to remote management and configuration
- Menu-driven interface make user a convenient way to maintain the storage by locally LCD front console

#### **Green Power Thinking**

 Save the power by adopt the new technology "MAID" (Massive Arrays of Idle Disks)

#### **Features**

- USB 2.0 (480Mbps) / eSATA (3Gbps) / iSCSI Host interface
- Support Multi-host (Multiple Volumes for host access)\*
- Over 2TB support
- Supports hot spare and automatic hot rebuild
- Allows online capacity expansion within the enclosure
- Local audible event notification alarm
- Supports password protection
- Built-in serial port interface for remote event notification
- Tagged command queuing for 256 commands, allows for overlapping data streams
- Transparent data protection for all popular operating systems

#### **RAID Management**

- Smart-function LCD panel
- Environmental monitoring unit
- Real time drive activity and status indicators
- Web-based GUI management utility
- \* Due to enhance the controller utilization, don't recommend access from iSCSI host at the same time.



# Series Technical Specifications

Form-factor	Model	EP-2123-UA-S / EP-2123-UA-R
RAID level	Form-factor	2U 19"rackmount chassis
Cache memory         128 MB           No. of channel (Host + drive)         4 + 12           Host bus interface         USB 2.0 / eSATA x 2 / ISCSI           Drive bus interface         SATA II (Up to 3.0 Gbps)           Data transfer rate         Support up to 480 Mbps (USB 2.0)           Support up to 3.0 Gbps (SATA II)           Support to 10 / 100 / 1000 Mbps Ethernet           Hot-swap drive tray         Twelve (12) 1-inch trays           Cooling fan         2           Password protection         Yes           Failed drive auto rebuild         Yes           Online consistency check         Yes           Online consistency check         Yes           Online expansion         Yes           Array roaming         Yes           Stripe size migration         Yes           Instant availability and         Yes	RAID processor	400MHz storage I/O processor
No. of channel (Host + drive)         4 + 12           Host bus interface         USB 2.0 / eSATA x 2 / iSCSI           Drive bus interface         SATA II (Up to 3.0 Gbps)           Support up to 480 Mbps (USB 2.0)           Data transfer rate         Support up to 3.0 Gbps (SATA II)           Support 10 / 100 / 1000 Mbps Ethernet           Hot-swap drive tray         Twelve (12) 1-inch trays           Cooling fan         2           Password protection         Yes           Audible alarm         Yes           Failed drive indicators         Yes           Failed drive auto rebuild         Yes           Online consistency check         Yes           Online expansion         Yes           Array roaming         Yes           Online RAID level /         Yes           stripe size migration         Yes           Instant availability and background initialization         Yes           Environment monitor         Yes           Auto spare support         Yes           Bad block auto-remapping         Yes           Remote management         Yes           MAID support         Yes           MAID support         Yes           Mindows XPIx64 , 2003/SP1 or 64-bit , Vista , 2008)	RAID level	0 , 1 , 10 (1E) , 3 , 5 , 6 and JBOD
Division	Cache memory	128 MB
Drive bus interface         SATA II (Up to 3.0 Gbps)           Support up to 480 Mbps (USB 2.0)           Bupport up to 3.0 Gbps (SATA II)           Support 10 / 100 / 1000 Mbps Ethernet           Hot-swap drive tray         Twelve (12) 1-inch trays           Cooling fan         2           Password protection         Yes           Audible alarm         Yes           Failed drive indicators         Yes           Failed drive auto rebuild         Yes           Online consistency check         Yes           Online expansion         Yes           Array roaming         Yes           Online RAID level /         Yes           stripe size migration         Yes           Instant availability and         Yes           background initialization         Yes           Environment monitor         Yes           Auto spare support         Yes           Bad block auto-remapping         Yes           Remote management         Yes           MAID support         Yes           MAID support         Yes           MAID support         Yes           Mac OS 10 or later , Linux kernel 2.6 or later           Mow x2 redundant power supply wPFC (EP-2123-UA-S) <t< td=""><td>No. of channel (Host + drive)</td><td>4 + 12</td></t<>	No. of channel (Host + drive)	4 + 12
Support up to 480 Mbps (USB 2.0)	Host bus interface	USB 2.0 / eSATA x 2 / iSCSI
Support up to 3.0 Gbps (SATA II)   Support 10 / 100 / 1000 Mbps Ethernet	Drive bus interface	SATA II (Up to 3.0 Gbps)
Support 10 / 100 / 1000 Mbps Ethernet  Hot-swap drive tray Twelve (12) 1-inch trays  Cooling fan 2 Password protection Yes Audible alarm Yes Failed drive indicators Failed drive indicators Failed drive auto rebuild Yes Online consistency check Yes Online expansion Yes Array roaming Yes Online RAID level / Stripe size migration Instant availability and background initialization Environment monitor Auto spare support Fes Bad block auto-remapping Yes MAID support Yes Maic OS 10 or later , Linux kernel 2.6 or later  400W x1(upgradeable) power supplies w/PFC (EP-2123-UA-R) Power requirements AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Data transfer rate	Support up to 480 Mbps (USB 2.0)
Hot-swap drive tray  Cooling fan  2 Password protection  Audible alarm  Yes Failed drive indicators Failed drive auto rebuild  Online consistency check  Online expansion  Array roaming  Yes Online RAID level /  stripe size migration  Instant availability and background initialization  Environment monitor  Auto spare support  Bad block auto-remapping  Remote management  Yes  Windows OS which GPT supported  (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)  Mac OS 10 or later , Linux kernel 2.6 or later  400W x1 (upgradeable) power supplies w/PFC (EP-2123-UA-R)  Power requirements  AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz		Support up to 3.0 Gbps (SATA II)
Cooling fan         2           Password protection         Yes           Audible alarm         Yes           Failed drive indicators         Yes           Failed drive auto rebuild         Yes           Online consistency check         Yes           Online expansion         Yes           Array roaming         Yes           Online RAID level /         Yes           stripe size migration         Yes           Instant availability and         Yes           background initialization         Yes           Environment monitor         Yes           Auto spare support         Yes           Bad block auto-remapping         Yes           Remote management         Yes           MAID support         Windows OS which GPT supported           Over 2TB support         (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)           Mac OS 10 or later , Linux kernel 2.6 or later           Power supplies         400W x1(upgradeable) power supply w/PFC (EP-2123-UA-S)           400W x2 redundant power supplies w/PFC (EP-2123-UA-R)           Power requirements         AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz		Support 10 / 100 / 1000 Mbps Ethernet
Password protection Audible alarm Yes Failed drive indicators Failed drive auto rebuild Yes Online consistency check Online expansion Array roaming Yes Online RAID level / stripe size migration Instant availability and background initialization Environment monitor Fauto spare support Auto spare support Wes MAID support Yes MAID support Yes Windows OS which GPT supported (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008) Mac OS 10 or later , Linux kernel 2.6 or later  400W x1 (upgradeable) power supply w/PFC (EP-2123-UA-R) Power requirements AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Hot-swap drive tray	Twelve (12) 1-inch trays
Audible alarm Yes Failed drive indicators Yes Online consistency check Online expansion Array roaming Online RAID level / stripe size migration Instant availability and background initialization Environment monitor Auto spare support Bad block auto-remapping Remote management MAID support  MAID support  Yes  Windows OS which GPT supported  (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008) Mac OS 10 or later , Linux kernel 2.6 or later  400W x1 (upgradeable) power supplies w/PFC (EP-2123-UA-S) 400W x2 redundant power supplies w/PFC (EP-2123-UA-R)  Power requirements  AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Cooling fan	2
Failed drive indicators Failed drive auto rebuild Online consistency check Online expansion Array roaming Online RAID level / stripe size migration Instant availability and background initialization Environment monitor Auto spare support Bad block auto-remapping Remote management MAID support  Yes  Mindows OS which GPT supported (Windows XP/x64, 2003/SP1 or 64-bit, Vista, 2008) Mac OS 10 or later, Linux kernel 2.6 or later  Power supplies  Power requirements  Yes  Yes  400W x2 redundant power supplies w/PFC (EP-2123-UA-R)  Power requirements  AC 100V ~ 240V full range, 8A ~ 4A, 47Hz ~ 63Hz	Password protection	Yes
Failed drive auto rebuild  Online consistency check  Online expansion  Array roaming  Online RAID level / Stripe size migration  Instant availability and background initialization  Environment monitor  Auto spare support  Bad block auto-remapping  Remote management  MAID support  Over 2TB support  Power supplies  Power requirements  Yes  Yes  Yes  Windows OS which GPT supported  (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)  Mac OS 10 or later , Linux kernel 2.6 or later  400W x1 (upgradeable) power supply w/PFC (EP-2123-UA-S)  400W x2 redundant power supplies w/PFC (EP-2123-UA-R)  Power requirements  AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Audible alarm	Yes
Online consistency check       Yes         Online expansion       Yes         Array roaming       Yes         Online RAID level /       Yes         stripe size migration       Yes         Instant availability and background initialization       Yes         Environment monitor       Yes         Auto spare support       Yes         Bad block auto-remapping       Yes         Remote management       Yes         MAID support       Yes         MAID support       Windows OS which GPT supported         Over 2TB support       (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)         Mac OS 10 or later , Linux kernel 2.6 or later         Power supplies       400W x1 (upgradeable) power supply w/PFC (EP-2123-UA-S)         400W x2 redundant power supplies w/PFC (EP-2123-UA-R)         Power requirements       AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Failed drive indicators	Yes
Online expansion         Yes           Array roaming         Yes           Online RAID level / stripe size migration         Yes           Instant availability and background initialization         Yes           Environment monitor         Yes           Auto spare support         Yes           Bad block auto-remapping         Yes           Remote management         Yes           MAID support         Yes           Windows OS which GPT supported         (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)           Mac OS 10 or later , Linux kernel 2.6 or later         400W x1(upgradeable) power supply w/PFC (EP-2123-UA-S)           400W x2 redundant power supplies w/PFC (EP-2123-UA-R)         AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Failed drive auto rebuild	Yes
Array roaming  Online RAID level / Stripe size migration  Instant availability and background initialization  Environment monitor  Auto spare support  Bad block auto-remapping  Yes  Remote management  Yes  MAID support  Yes  Windows OS which GPT supported  (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)  Mac OS 10 or later , Linux kernel 2.6 or later  Power supplies  Power requirements  AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Online consistency check	Yes
Online RAID level / stripe size migration Instant availability and background initialization  Environment monitor Yes Auto spare support Yes Bad block auto-remapping Yes Remote management Yes MAID support Yes  MAID support Yes  Over 2TB support Windows OS which GPT supported (Windows XP/x64, 2003/SP1 or 64-bit, Vista, 2008) Mac OS 10 or later, Linux kernel 2.6 or later  Power supplies  Power requirements AC 100V ~ 240V full range, 8A ~ 4A, 47Hz ~ 63Hz	Online expansion	Yes
stripe size migration Instant availability and background initialization Environment monitor Yes Auto spare support Yes Bad block auto-remapping Yes Remote management Yes MAID support Yes  Windows OS which GPT supported (Windows XP/x64, 2003/SP1 or 64-bit, Vista, 2008) Mac OS 10 or later, Linux kernel 2.6 or later  Power supplies  Power requirements  AC 100V ~ 240V full range, 8A ~ 4A, 47Hz ~ 63Hz	Array roaming	Yes
Instant availability and background initialization  Environment monitor  Auto spare support  Bad block auto-remapping  Remote management  Yes  MAID support  Yes  Windows OS which GPT supported  (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)  Mac OS 10 or later , Linux kernel 2.6 or later  Power supplies  Power requirements  AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Online RAID level /	Yes
background initialization  Environment monitor  Auto spare support  Bad block auto-remapping  Remote management  Yes  MAID support  Yes  Windows OS which GPT supported  (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)  Mac OS 10 or later , Linux kernel 2.6 or later  Power supplies  Power requirements  AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	stripe size migration	
background initialization  Environment monitor  Auto spare support  Bad block auto-remapping  Yes  Remote management  Yes  MAID support  Yes  Windows OS which GPT supported  (Windows XP/x64, 2003/SP1 or 64-bit, Vista, 2008)  Mac OS 10 or later, Linux kernel 2.6 or later  Power supplies  Power requirements  AC 100V ~ 240V full range, 8A ~ 4A, 47Hz ~ 63Hz	Instant availability and	Yes
Auto spare support         Yes           Bad block auto-remapping         Yes           Remote management         Yes           MAID support         Yes           Windows OS which GPT supported           (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)           Mac OS 10 or later , Linux kernel 2.6 or later           Power supplies         400W x1(upgradeable) power supply w/PFC (EP-2123-UA-S)           400W x2 redundant power supplies w/PFC (EP-2123-UA-R)           Power requirements         AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	background initialization	
Bad block auto-remapping         Yes           Remote management         Yes           MAID support         Yes           Windows OS which GPT supported           (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)           Mac OS 10 or later , Linux kernel 2.6 or later           Power supplies         400W x1(upgradeable) power supply w/PFC (EP-2123-UA-S)           400W x2 redundant power supplies w/PFC (EP-2123-UA-R)           Power requirements         AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Environment monitor	Yes
Remote management         Yes           MAID support         Yes           Vindows OS which GPT supported           (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)           Mac OS 10 or later , Linux kernel 2.6 or later           Power supplies         400W x1(upgradeable) power supply w/PFC (EP-2123-UA-S)           400W x2 redundant power supplies w/PFC (EP-2123-UA-R)           Power requirements         AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Auto spare support	Yes
MAID support         Yes           Over 2TB support         Windows OS which GPT supported           (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)           Mac OS 10 or later , Linux kernel 2.6 or later           Power supplies         400W x1(upgradeable) power supply w/PFC (EP-2123-UA-S)           400W x2 redundant power supplies w/PFC (EP-2123-UA-R)           Power requirements         AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Bad block auto-remapping	Yes
Over 2TB support         Windows OS which GPT supported           (Windows XP/x64 , 2003/SP1 or 64-bit , Vista , 2008)           Mac OS 10 or later , Linux kernel 2.6 or later           Power supplies         400W x1(upgradeable) power supply w/PFC (EP-2123-UA-S)           400W x2 redundant power supplies w/PFC (EP-2123-UA-R)           Power requirements         AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz	Remote management	Yes
Over 2TB support         (Windows XP/x64, 2003/SP1 or 64-bit, Vista, 2008)           Mac OS 10 or later, Linux kernel 2.6 or later           Power supplies         400W x1(upgradeable) power supply w/PFC (EP-2123-UA-S)           400W x2 redundant power supplies w/PFC (EP-2123-UA-R)           Power requirements         AC 100V ~ 240V full range, 8A ~ 4A, 47Hz ~ 63Hz	MAID support	Yes
Mac OS 10 or later , Linux kernel 2.6 or later  Power supplies    400W x1(upgradeable) power supply w/PFC (EP-2123-UA-S)	Over 2TB support	Windows OS which GPT supported
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		400W x2 redundant power supplies w/PFC (EP-2123-UA-R)
Environmental	Power requirements	AC 100V ~ 240V full range , 8A ~ 4A , 47Hz ~ 63Hz
Environmental	Environmental	
Relative humidity: 10% ~ 85% Non-condensing	Relative humidity:	10% ~ 85% Non-condensing
Operating temp: $10^{\circ}\text{C} \sim 40^{\circ}\text{C} (50^{\circ}\text{F} \sim 104^{\circ}\text{F})$	Operating temp :	10°C ~ 40°C (50°F ~ 104°F)
Physical dimensions: 88 (H) x 482 (W) x 500 (D) mm	Physical dimensions :	88 (H) x 482 (W) x 500 (D) mm
Weight 14.4 Kgs (w/o Drives)		14.4 Kgs (w/o Drives)

Specification are subject to change without notice.

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