

## LSI® Syncro™ MX-B 6480 and 6240

Rack Boot Appliance helps deliver reliability while reducing cost and power consumption for largest cloud and mega datacenters



LSI Syncro MX-B Rack Boot Appliance

### Smart, Simple Boot Drive Solution Keeping Systems on in Mega Datacenters

Today's datacenters face enormous challenges with massive data growth, increased cost and power consumption, as well as issues related to reliability, downtime and data loss. The high failure rate of traditional boot drives used in these ever-expanding scale-out datacenters and traditional datacenters is an expensive problem. The LSI Syncro MX-B Rack Boot Appliance is a standalone, pre-configured solution that can increase reliability by up to 100x by replacing the individual server boot drives. The appliance is transparent to the host system and provides as unique boot image for each of up to 48 servers.

### Increased RAS, Ease-of-Use, and Power Savings

By removing up to 48 individual boot volumes, and replacing them with the single Syncro MX-B Rack Boot Appliance, cloud and mega datacenter customers can dramatically reduce a common failure point in rack-base servers while increasing reliability/availability/serviceability (RAS), ease-of-use and power savings. The MX-B appliance stores the boot images for each server on an enterprise SATA RAID volume made up of hot swappable hard drives. Additional RAS is achieved through the use of redundant fans and power supplies within the enclosure, which results in dramatically lower server failure rates when compared to traditional SATA boot methods.

The MX-B appliance is a near "plug and play" solution, with no additional software or driver installation required and the only configuration needed for basic operations is equivalent to the rack server configuration which can be completed via scripting actions in the CLI interface. The boot appliance is transparent to the host system, fits in a standard 1U rack mount, and supports multiple operating systems, which all allow for even more ease-of-use.

#### Key Applications

- Mega Datacenter and Cloud Environments
- Rack mount servers including high density optimized servers

#### Key Features

- RAID 1/10 with redundant fans and power supplies
- Simple, easy integration
- Industry-standard SATA/SAS infrastructure
- 24 and 48 Port Configurations – Allows easier scaling
- 24/48 SATA 2.0 Ports at 1.5/3 GB/s
- 1U Form Factor
- Out-of-band Appliance Management via CLI
- OS Independent
- Power Savings
- No Host Software Requirement

### Rack Boot Appliance Management

Available in 24-port and 48-port configurations, the Syncro MX Rack Boot Appliance offers easier scaling and configuration flexibility. Management of the Appliance is achieved through the Ethernet Management Port and allows for configuration, status queries, error reporting, and Alerts/Traps in conformance with SNMP v3. SNMP alerts will provide the user with critical information such as a drive failure that will require service without interruption to the attached servers.

**LSI Syncro MX-B 6480 Rack Boot Appliance**

<b>SATA Ports</b>	48 - x1 SATA Ports
<b>RAID Configuration</b>	1 RAID 10 Volume
<b>Connectivity</b>	12 – x4 mini-SAS HD Connectors
<b>Visual Indicators</b>	Appliance Status LED, Unit Located LED, Drive Status LED
<b>Management Interface</b>	Ethernet out-of-band

**LSI Syncro MX-B 6240 Rack Boot Appliance**

<b>SATA Ports</b>	24 - x1 SATA Ports
<b>RAID Configuration</b>	1 RAID 1 Volume
<b>Connectivity</b>	6 – x4 min-SAS HD Connectors
<b>Visual Indicators</b>	Appliance Status LED, Unit Located LED, Drive Status LED
<b>Management Interface</b>	Ethernet out-of-band

	<b>LSI Syncro MX-B 6480 Specifications</b>	<b>LSI Syncro MX-B 6240 Specifications</b>
<b>Protocol Compliance</b>	External Interface – SATA 2.0 Storage Interface – SATA/SAS 2.0	External Interface – SATA 2.0 Storage Interface – SATA/SAS 2.0
<b>Port Configuration</b>	48 – x1 SATA Connections	24 – x1 SATA Connections
<b>Internal Storage Types</b>	1.5, 3.0 or 6.0Gb/s SAS or SATA	1.5, 3.0 or 6.0Gb/s SAS or SATA
<b>RAID Configuration</b>	RAID 10 Volume	RAID 1 Volume
<b>Management Interface</b>	10/100 Ethernet out-of-band	10/100 Ethernet out-of-band
<b>Connectors</b>	Ethernet – RJ-45 SATA – 12 Mini-SAS HD	Ethernet – RJ-45 SATA – 6 Mini-SAS HD
<b>Firmware</b>	Field upgradeable	Field upgradeable
<b>LED Indicators</b>	Appliance Status LED, Unit Located LED, Drive Status LED	Appliance Status LED, Unit Located LED, Drive Status LED
<b>Power Consumption</b>	125 watts nominal	85 watts nominal
<b>Power Supply</b>	160W – 100-240AC @ 50/60Hz	160W – 100-240AC @ 50/60Hz
<b>Redundant cooling w/ PWM control</b>	Support for 6 fans	Support for 6 fans
<b>Size</b>	1.66" x 17.38" x 13.99" (Appliance Only) 1.69" x 18.94" x 13.99" (Rack Mount HW)	1.66" x 17.38" x 13.99" (Appliance Only) 1.69" x 18.94" x 13.99" (Rack Mount HW)
<b>Environments</b>	Operating: 5-35C Storage:-20 – 65C	Operating: 5-35C Storage:-20 – 65C
<b>MTBF</b>	TBD	TBD
<b>Compliances</b>	FCC Class A, cULus, CE mark	FCC Class A, cULus, CE mark
<b>Warranty</b>	One Year	One Year

For more information and sales office locations, please visit the LSI website at: [www.lsi.com](http://www.lsi.com)



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