

BladeRack® 2 XM Platform

THE INDUSTRY'S DENSEST BLADE-BASED COMPUTE SOLUTION



PRODUCT OVERVIEW

Cirrascale™ has tailored the BladeRack® 2 X-Series to provide unparalleled performance and investment protection across the dynamic enterprise computing landscape. The BladeRack 2 (BR2-XM) is an innovative adaptation of the BladeRack 2 platform that provides customers with a higher density compute environment when features such as a fully redundant power subsystem and robust management are not needed. The BR2-XM is the industry's densest compute solution with support for up to 96 blades, each housing the most cutting edge components and processors available making this platform attractive for demanding grid and web serving environments.

Like all Cirrascale products, the BR2-XM is completely customizable and can be configured with a focus on compute density. With its ability to employ up to 768 processing cores and over 192TB of local disk space, the potential of the BR2-XM is truly boundless. Customers with high IOPs requirements will find the a full compliment of Solid State Drive offerings to speed up even the most demanding application. Web hosting and Software as a Service (SaaS) providers will find the ultra dense capacity appealing while the 80%+ efficient power subsystem will improve recurring costs in a co-location environment.

Advanced power and cooling architectures such as redundant power inputs and fan trays make the BR2-XM platform perfect for today's Financial Service and Application Service Providers where an increased level of uptime is required. With server management based on the IPMI 2.0 standard system administrators will be able to remotely monitor and manage individual

blades as well as have full control with optional KVM-IP functionality.

The BR2-XM platform employs the same patented Vertical Cooling Technology™ that is found in all of the BladeRack 2 X-Series platforms. This allows Cirrascale to use the fastest processors available on the market without the performance loss common in blade servers from other vendors due to CPU throttling. Our patented Vertical Cooling Technology has proven to save money by reducing energy expenditure and ensuring reliability, enabling data centers to use their power for compute instead of cooling.

The BR2-XM utilizes an ultra-efficient 208-400VAC power solution to drastically reduce your organization's energy expenditure. The BR2-XM power distribution module is available with redundant power inputs for an added level of reliability when connected to separate power circuits. This innovative power solution also generates substantially less heat than those found in competing solutions, saving additional resources. The combination of extreme density and efficiency drive the total cost of ownership of the BR2-XM far below that of competing solutions while gaining an increase in performance and reliability; and the enterprise computing community has taken notice.

Industry re-defining solutions such as the BladeRack 2 XM, is how Cirrascale makes good on our promise to deliver Blades Without Boundaries®.

FEATURES AT A GLANCE

- Blades Offer Powerful Processing for Demanding Cloud, Grid and Web Serving Environments
- Industry Leading Density with up to 768 Processing Cores per Platform
- Up to 96 Compute Servers per Platform
- Industry Leading Patented Vertical Cooling Technology™
- Up to 192 Ethernet Ports per Platform
- Economic Infrastructure
- Optional Redundant Power Inputs

CUSTOM CONFIGURATIONS

Cirrascale supports multiple configurations and can tailor any system to your specific needs. If you have questions, please contact us today at (888)942-3800 and ask to speak with a Cirrascale Account Manager.

ABOUT CIRRASCAL

Cirrascale, Inc. is the premier developer of scale-out blade-based computing and storage platforms for Cloud, Web 2.0, and the global enterprise. Cirrascale provides scale-out solutions for the world's largest data centers that reduce power and cooling demands while achieving the best density, availability, and energy efficiency for the highest total value of ownership. Organizations such as Virgin America, Morgan Stanley, Wachovia, Microsoft, Qualcomm, Johns Hopkins, EMC, CCGVeritas, Petrobras, Harris, Lockheed Martin, Northrop Grumman, and Sony Imageworks, as well as top universities and research institutions worldwide, are among the customers who have chosen Cirrascale's award-winning containerized data centers and high density blade-based platforms.

Architecture

- Optional Redundant Power Inputs
- Patented Vertical Cooling Technology™
- IPMI Management

Capacity

- Up to 96 Blades
- Up to 192 Ethernet Ports
- Up to 768 Processing Cores

Management

- IPMI 2.0
 - Remote power on/off/reset
 - KVM-IP (optional)

Rack Dimensions and Weight

Height: 2222 mm (87.5 in.)
 Width: 609 mm (24.0 in.)
 Depth: 1168 mm (46.0 in.)
 Weight: 907.1kg (2000 lbs.)

Power System

- Auto-Sensing 208V - 400V, 50/60Hz, 3-Phase Power Input
 - Two Hubbell HBL2721, 30A twist-lock plugs (L15-30P)
 - Two Hubbell CS8365C, 50A twist-lock plugs
 - Two Hubbell HBL460P9W, 60A twist-lock plugs
 - Two Interpower 8415 3351, 50A twist-lock plugs (international)
 - Two Interpower 8415 2501, 30A twist-lock plugs (international)
- Optional 208V 50/60Hz, 3-Phase Redundant Power Inputs
 - Four Hubbell HBL2721, 30A twist-lock plugs (L15-30P)
 - Four Hubbell CS8365C, 50A twist-lock plugs
 - Four Hubbell HBL460P9W, 60A twist-lock plugs
- High-Efficiency: In Excess of 85% at 208VAC Input Power
- MTBF in Excess of 250,000 Hours

BLADERACK 2 XM BLADE MATRIX

BLADERACK 2 XM BLADE MATRIX	Blade	Processor	Memory	Storage	Special Features
	VB1205XM	Intel Xeon 5100/5200/5400 Series	Up to 24GB	Up to 2TB	SSD Options

BLADERACK 2 XM PLATFORM MATRIX

BLADERACK 2 XM PLATFORM MATRIX	BladeRack 2 XM Matrix	XM
	Cooling	VCT
	Maximum Density	96 blades
	Power to Rack	208/400VAC
	Power to Blade	208VAC
	Power Efficiency	85+%
	Height	2222mm (87.5 in)
	Maximum Weight Fully Populated	1377 kg (3036 lbs.)
	Compute Only	1147 kg (2530 lbs)
	Depth with Doors	1360mm (53.5 in.)
	Width	609mm (24.0 in.)
	Management	IPMI
	Maximum Storage Capacity	192TB
	Redundant Power Option	YES
	Utility Space	7U
	Maximum # of Processor Cores	768
	Ability to Mix Compute and Storage Blades	NO

