

BladeRack® 2 XL Platform

THE INDUSTRY'S DENSEST, MOST SCALABLE BLADE-BASED CLOUD STORAGE AND COMPUTE SOLUTION



PRODUCT OVERVIEW

Cirrascale™ has tailored the BladeRack® 2 Series to provide unparalleled performance and investment protection for data center consolidation efforts in the dynamic enterprise computing landscape. Nearly every data center problem can be countered with a BladeRack 2 Series solution and the BladeRack 2 XL (BR2-XL) was designed with just that in mind.

Customers in the Entertainment and Media industry can utilize the BR2-XL's industry leading density to dramatically cut costs and boost efficiency in their render farms. Oil and Gas customers can increase the compute power of their data centers, giving them the ability to process more terrain in record time, leading to increased profits. Financial Services customers could utilize the BR2-XL for a full range of grid computing applications.

Cirrascale's award winning CirraStor storage solutions for the BR2-XL enhance overall performance of Web 2.0 applications. The BR2-XL is a barrier breaking solution that will redefine enterprise computing across the board.

The BR2-XL is an innovative adaptation of the BladeRack 2 X-Series platform that provides customers with a lower cost alternative when features such as a fully redundant power subsystem and robust management are not needed.

The BR2-XL is the industry's densest storage and compute solution with support for up to 72 blades, each housing the most cutting edge components and processors available. Like all Cirrascale products, the BR2-XL is completely customizable and can be configured with a focus on compute,

storage or as a hybrid utilizing our award-winning CirraStor products. With its ability to employ up to 1720 processing cores or 1.3PB of storage per platform, the versatility and potential of the BR2-XL is truly without boundaries.

The BR2-XL platform employs the same patented Vertical Cooling Technology™ that is found in all BladeRack 2 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.

BR2-XL utilizes an ultra-efficient 208-400VAC power solution to drastically reduce your organization's energy expenditure. The BR2-XL 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-XL far below that of competing solutions while gaining an increase in performance and reliability. Industry re-defining solutions like the BR2-XL are how we at Cirrascale make good on our promise to deliver Blades Without Boundaries®.

FEATURES AT A GLANCE

- Ideal Platform for Cloud and Service Provider Applications
- Enhance Web 2.0 Application Performance
- Up to 72 Compute or Storage Servers per Platform
- Up to 1720 Processing Cores per Platform
- Industry Leading Patented Vertical Cooling Technology™
- Supports Cirrascale's Award Winning CirraStor Storage Solutions
- Workstation Blades Consolidate Desktops and Increase Efficiency
- Optional Hardware Management Infrastructure
- Boost Overall Efficiency and Lower TCO
- 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 CIRRASCALE

Cirrascale Corporation is a premier developer of independent blade-based cloud computing and cloud storage platforms for conventional and modular data centers that are defining a new era in the green data center. Cirrascale provides the industry's most energy-efficient and reliable standards-based solutions with the lowest possible total cost of ownership in the absolute densest form factor due to its patented Vertical Cooling Technology. Cirrascale sells directly to large-scale infrastructure operators and managed services providers, and through resellers and distributors to HPC and Cloud segments. Cirrascale also licenses its award winning systems-level designs to technology partners globally.

Architecture

- Redundant Power Inputs (Optional)
- Patented Vertical Cooling Technology™
- IPMI Management
- MTBF in Excess of 250,000 Hours

Capacity

- Up to 72 Blades
- Up to 300 Ethernet Connections
- Up to 1720 Processing Cores
- Up to 1.3PB Hard Disk Drives per Rack

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

BLADERACK 2 XL BLADE MATRIX	Blade	Processor	Memory	Storage	Special Features
	VB1305XL	Two Intel Xeon 5600 Series	Up to 64GB	Up to 1TB	2x Hot Swap 2.5" HDD, SSD Options
	VB1307XL	Two Intel Xeon 5600 Series	Up to 64GB	Up to 1TB	2x Hot Swap 2.5" HDD, VMware Compatible
	VB1310XL	Two Intel Xeon 5600 Series	Up to 144GB	Up to 4TB	2x 3.5" HDD or SSD Options
	VB1312XL	Two Intel Xeon 5600 Series	Up to 144GB	Up to 4TB	2x 3.5" HDD, VMware Compatible
	VB1315XL	Two Intel Xeon 5600 Series	Up to 192GB	Up to 8TB	4x Fixed 3.5" HDDs
	VB1316XL	Two Intel Xeon 5600 Series	Up to 48GB	Up to 4TB	4x Hot Swap or 8x Fixed 2.5" HDDs, SSD Options
	VB1320XL	Two Intel Xeon 5600 Series	Up to 192GB	Up to 1TB	2x Hot Swap 2.5" HDD, SSD Options
	VB1325XL	Two Intel Xeon 5600 Series	Up to 288GB	Up to 1TB	HyperCloud™ Memory Enabled
	SB5315XL	HEAD NODE: Two Intel Xeon 5600 Series	Up to 192GB	Up to 96TB	SB1315 Head Node + SB1058S Disk Node
	GB1315XL	Two Intel Xeon 5600 Series	Up to 96GB	Up to 8TB	Supports Latest GPGPU Cards from NVIDIA and ATI
WS1660XL	One Intel Core i7-800 Series	Up to 16GB	Up to 1TB	Cirrascale Connexus Compatible	

BLADERACK 2 XL PLATFORM MATRIX	Description / Feature	XL
	Cooling	VCT
	Maximum Density	72 blades
	Power to Rack	208/400VAC
	Power to Blade	208VAC
	Power Efficiency	85+%
	Height	2222mm (87.5 in.)
	Maximum Weight Fully Populated	1409 kg (3100 lbs.)
	Compute Only	1147 kg (2530 lbs.)
	Depth with Doors	1360mm (53.5 in.)
	Width	609mm (24.0 in.)
	Management	IPMI
	Maximum Storage Capacity	1.3PB
	Redundant Power Option	Yes*
Utility Space	8U	
Maximum # of Processor Cores	864	
Mix Compute and Storage Blades	YES	

* - Available only in North America

