

BladeRack® 2 XM Platform

The Industry's Densest, Most Versatile Blade-Based Web Serving, Grid and Compute Solution

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. 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 just over 2680 processing cores and over 1.5PB of local storage 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.

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 96 Compute Servers per BladeRack 2 XM Platform
- Over 2680 Processing Cores per Platform
- Industry Leading Patented Vertical Cooling Technology™
- Supports Cirrascale's Award Winning CirraStor Storage Solutions
- Boost Overall Efficiency and Lower TCO



BladeRack 2 XM Platform Specifications

Architecture:

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

Capacity:

- Up to 96 Blades
- Up to 192 Ethernet Connections
- Over 2680 Processing Cores
- Over 1.5PB Storage Capacity 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

Environmental Requirements - Temperature

Operating Temperature

- Required: 50°F to 70°F (10°C to 25°C)
- Suggested: 65°F (18°C)

Temperature Rate of Change

- Required: Less than 10°F (6°C) per hour
- Suggested: Less than 10°F (6°C) per hour

Non-Operating Temperature

- Required: 34°F to 120°F (1°C to 49°C)
- Suggested: 80°F (27°C)

Shipping Temperature

- Required: -40°F to 140°F (-40°C to 60°C)
- Suggested: -40°F to 140°F (-40°C to 60°C)

Storage Temperature

- Required: 34°F to 120°F (1°C to 49°C)
- Suggested: 34°F to 120°F (1°C to 49°C)

Environmental Requirements - Relative Humidity

Operating Relative Humidity

- Required: 20% to 80% Non-Condensing
- Suggested: 50% Non-Condensing

Non-Operating Relative Humidity

- Required: 20% to 80% Non-Condensing
- Suggested: 20% to 80% Non-Condensing

Shipping Relative Humidity

- Required: 5% to 85% Non-Condensing
- Suggested: 5% to 85% Non-Condensing

Storage Relative Humidity

- Required: 10% to 80% Non-Condensing
- Suggested: 10% to 80% Non-Condensing

About Cirrascale

Cirrascale Corporation is a premier provider of blade-based GP/GPU, cloud computing and storage infrastructure for conventional and containerized data centers. Cirrascale leverages its patented Vertical Cooling Technology to provide the industry's most energy-efficient standards-based platforms with the lowest possible total cost of ownership in the densest form factor. Cirrascale sells to large-scale infrastructure operators, hosting and managed services providers, Cloud Service Providers, and HPC users. Cirrascale also licenses its award winning technology to partners globally.

Contact Us Today

To learn more about Cirrascale and its unique data center infrastructure solutions, please visit us on our website at www.cirrascale.com or contact one of our Account Managers by calling (888) 942-3800.

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