

BladeRack® 2 XL Platform

The Industry's Densest, Most Scalable Blade-Based Cloud Storage 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. 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 and EDA customers can experience GPGPU density unlike anything experienced before.

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 2600 processing cores or over 3.4PB 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.

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
- Up to 72 Compute or Storage Servers per Platform
- Up to 2600 Processing Cores or 3.4PB of Storage per Platform
- Industry Leading Patented Vertical Cooling Technology™
- Supports Cirrascale's Award Winning CirraStor Storage Solutions
- Boost Overall Efficiency and Lower TCO



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 2600 Processing Cores
- Over 3.4PB of Reconfigurable Storage

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 developer of hardware and cloud-based solutions enabling GPU-driven deep learning infrastructure. Cirrascale leverages its patented Vertical Cooling Technology and proprietary PCIe switch riser technology to provide the industry's densest rackmount and blade-based peered multi-GPU platforms. The company sells hardware solutions to large-scale deep learning infrastructure operators, hosting and 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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