

RM4600 Series Rackmount Platform

The Ultimate Rackmount, Multi-Device Peering Platform Powered by the Intel® Xeon® Processor E5-2600/1600 v3 Product Family for Highly Parallel Applications

Until now, there has never been a rackmount multi-device peering platform available with this level of performance and scalability perfect for highly parallel applications. Cirrascale is proud to introduce the new RM4600 rackmount server series utilizing its revolutionary PCIe switch riser technology.

The new Cirrascale RM4600 rackmount server series supports the recently released Intel® Xeon® processor E5-2600/1600 v3 product families and up to four PCIe Gen 3.0 devices enabling multi-device peering on a single PCIe root complex. This makes the RM4600 a perfect solution for highly parallel applications and libraries like those used for deep learning, machine learning, and molecular dynamics such as Torch 7, Theano, and AMBER.

The Cirrascale RM4600 implements the new low power, high speed DDR4 memory technology providing increased bandwidth and power efficiency while enabling higher overall memory bandwidth with lower density DIMMs. Additionally, the new systems provide improved performance of various high performance computing, professional imaging and feature detection applications and include next-gen networking improvements, new virtualization and security features. Overall, the Cirrascale RM4600 is perfectly aligned for various scientific, analytics, and engineering applications worldwide, including those for deep learning, machine learning, and molecular dynamics.

With these new products, Cirrascale is facilitating data center transformation by providing scalable PCIe device performance. Customers deploying next generation scale-out infrastructure will benefit from the combination of Intel's latest processor platforms and Cirrascale's PCIe switch riser peering technology.

"Cirrascale peer to peer technology, like that used in the new RM4600, allows us to unlock the true power of GPUs for scientific computation. This is the first platform of its kind and provides the unprecedented bandwidth needed to scale an individual molecular dynamics simulation with AMBER across all the GPUs and devices within a node. This previously unattainable performance will have impact on many fields."

**Ross Walker, Associate Research Professor
San Diego Supercomputer Center**

About Cirrascale

Cirrascale Corporation is a premier provider of blade-based GPGPU, 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.



**RM4600 Multi-Device
Peering Platform**

Cirrascale RM4600 Series Rackmount Platform

With the consistent advances in technology, Cirrascale engineering and development teams are constantly testing and deploying the latest technical specifications being offered by our technology partners. We make every effort to provide the below specifications error-free and up-to-date. However, we always encourage our customers to contact us to discuss Cirrascale's latest improvements to its products.

Cirrascale RM4600 Series Rackmount Specifications

4U rackmount server or pedestal chassis containing:

Processor:

Options include dual Intel® Xeon® processor E5-2600/1600 v3 product family

Chipset:

- Intel C612 PCH

Memory:

- Supports up to 128GB DDR4 Memory
- 16 DIMM Slots DDR4 2133/1866/1600 MHz

Storage:

- 10 x SATA III 6Gb/s ports
- Supports RAID 0, 1, 5, 10

Networking:

- 2 x Gigabit LAN Controller(s) (Intel® I210-AT)
- 1 x Management LAN

Expansion Slots:

- 4 x PCIe 3.0/2.0 x16 (x16 mode)
- 2 x PCIe 3.0/2.0 x16 (x8 mode)

Supported PCIe Peering Configurations:

- Supports up to 4 PCIe devices by utilizing the Cirrascale PCIe Gen 3 Switch Riser (SR3514)

Integrated Graphics:

- VGA Integrated in ASPEED AST2400 32MB
- 1920x1200@60Hz 32bpp

Management and Monitoring:

- WfM 2.0, DMI 2.0, WOL by PME, PXE

Operating Systems Supported:

- Windows® Server 2012 R2
- Windows® Server 2012
- Windows® Server 2008 Enterprise SP2 64-bit
- Windows® 8.1 64-bit
- Windows® 8 64-bit
- Windows® 7 32/64-bit

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