



HYPERSCALE-INSPIRED DESIGN

Dell PowerEdge C2100

A data monster, the Dell™ PowerEdge™ C2100 has up to 192GB of memory, with up to 38TB of disk capacity so you can see results faster.

Designed with your needs in mind

With the PowerEdge C2100, you don't have to choose memory over disk capacity. You get both so you can get results faster. The PowerEdge C2100 is designed to maximize space, energy and cost efficiency in data centers where memory and storage density are critical: Apache® Hadoop, Map/Reduce, Web analytics, database and cloud computing.

PowerEdge C2100 features include the performance of two six- or quad-core Intel® Xeon® 5500/5600 series processors with 18 DDR3 memory slots to increase gigabytes without increasing the number of nodes.

It supports up to 12 x 3.5" or 24 x 2.5" hot-plug disks (SAS/SATA) and has two internal 2.5" disk bays. Expansion options include two standard x 8 PCI Express slots and two dedicated x 4 PCI Express slots for SAS and 10Gb Ethernet (GbE).

Increase memory and save

The power-efficient Intel® Xeon® 5500/5600 series more than doubles memory over previous Intel generations, providing 18 DDR3 DIMM sockets for up to 192GB of memory.

Select Samsung's® latest low-voltage high-density DDR3 memory and you can help to further reduce your energy costs.

The right mix of disks

The PowerEdge C2100's mix of disk configurations and backplane options enables you to select the combination of components that best matches your needs. Choose from 2.5" or 3.5" high-capacity SATA or high-performance SAS hot-plug drives in the front-loaded carriers, in addition to two internal 2.5" SATA HDDs or single-level cell (SLC) solid-state drives (SSDs) for up to 38TB of capacity.

For applications where the highest performance is required, the C2100 has a backplane configuration that allows you to control all 12 drives via 12 SAS/SATA ports, rather than requiring an expander chip where performance may be limited.

If greater RAID flexibility is the goal, an expander backplane is available to control 12 drives from one

SAS/SATA controller. In addition, the two internal 2.5" HDD/SSD drives are available with the expander backplane to open up further possibilities in local storage, while support for 6Gb SAS provides future-ready scalability.

PowerEdge C server line

The PowerEdge C2100 is part of Dell's new hyperscale-inspired PowerEdge C server line designed to bring the most compute power in the least amount of space with the least energy draw to lower operational costs. These servers have the right combination of what you need and nothing more.

These are purpose-built servers, designed for HPC, Web 2.0, data analytics, gaming and cloud building. They are best for rack deployments, large homogenous cloud/cluster application environments where the software stack provides primary platform availability and resiliency.

The PowerEdge C server line does not come with features you don't need like comprehensive systems management, or broad enterprise storage.

PowerEdge C2100

The right mix of disk configurations and backplane options allows you to select the combination of components that best meets your needs, helping to maximize space, energy and cost efficiency.

Feature	PowerEdge C2100 Technical Specifications	
Chassis	2U rack mount	
Processors	2-socket, 4 or 6 cores per processor Intel® Xeon® 5500/5600 processor series with L2/L3 cache: 4MB/8MB/12MB	
Front Side Bus	Intel QuickPath Interconnect	
Memory	2GB/4GB/8GB/16GB DDR3 (1333 MT/s), 18 DIMM slots for up to 192GB SDDC, ECC 4GB/8GB/16GB low-volt DDR3 Samsung® Green Memory available	
Chipset	Intel® 5500	
Video	Integrated AST2050 with 8MB VGA memory	
Primary Storage	Maximum internal storage: 26TB SATA or 38TB NL SAS	
Drive Bays and Hard Drives	12 x 3.5" or 24 x 2.5" hot-plug hard drives 2 additional internal 2.5" SATA HDD or SSD (optional) 2.5" 6GB SAS (15K): 146GB, 300GB 2.5" 6GB SAS (10K): 300GB, 600GB, 900GB 2.5" NL SAS (7.2K): 500GB, 1TB	2.5" SATA (7.2K RPM): 250GB, 500GB, 1TB 2.5" SSD (MLC NAND): 100GB, 200GB 3.5" SATA (7.2K): 500GB, 1TB, 2TB 3.5" SAS (15K): 300GB, 450GB, 600GB 3.5" NL SAS (7.2K): 1TB, 2TB, 3TB
Connectivity	Onboard: Intel 82576 – 2 x Gb Ethernet and 1 x 100Mb Ethernet dedicated management port Add-in: 1Gb and 10Gb Ethernet card options QDR InfiniBand card options	
Ports - USB	2 USB ports (rear)	
I/O Slots	4 PCIe G2 slots: 2 x 8 PCI Express Gen2 slot 1 proprietary mezzanine for dual port 10GbE daughtercard 1 proprietary mezzanine for LSI 2008 SAS daughtercard	
Controller	Internal Controllers: LSI® 2008 SAS daughtercard LSI MegaRAID® SAS 9260-8i PERC H200 PERC H700 External Controllers: PERC H800	
Power Supplies	Dual hot-plug redundant high-efficiency 750W power supplies or single high-efficiency 750W power supply	
Fans	2 x 80mm speed detectable with PWM control, 1 x 60mm speed detectable with PWM control	
Operating Systems	Novell® SUSE® Linux® Enterprise Server 11 x64 SP2 Red Hat® Enterprise Linux 6.0 SP2 Microsoft® Windows Server® 2008 R2 Enterprise SP1 and HPC Server 2008 R2 x64 SP1	
Server Management	Embedded BMC with IPMI 2.0 support Intel® Intelligent Power Node Manager compliant	
Hypervisors (Optional)	Citrix® XenServer® VMware® ESXi™ Microsoft Windows Server 2008 Hyper-V®	
Services (Availability varies by region. Please contact your sales representative for details.)	Infrastructure Consulting Services Rack Integration (U.S. only) Onsite Deployment Basic Support, ProSupport for IT	4-Hour Support Keep Your Hard Drive Enterprise Wide Contract Specialized Onsite Services

Global services and support

Dell is dedicated to simplifying IT, and Dell Services can help you manage the complexities of growing and maintaining your scale-out environments. Dell's broad portfolio of planning, implementation and maintenance services can help accelerate your IT initiatives and grow your business. Dell services can be tailored to complement how you manage your environment. Options include, but are not limited to consulting services to help you optimize your data center, custom rack integration, and expert-level support to ensure maximum system uptime.

Learn more at Dell.com/PowerEdgeC

© 2012 Dell Inc. All rights reserved. Dell, the DELL logo, the DELL badge and PowerEdge are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. This document is for informational purposes only. Dell reserves the right to make changes without further notice to the products herein. The content provided is as-is and without expressed or implied warranties of any kind.

