

HYPERSCALE-INSPIRED DESIGN

Dell PowerEdge C6100

Ultra-dense 2U shared infrastructure, the Dell™ PowerEdge™ C6100 supports up to 4 independent server nodes, providing capacity, performance and flexibility in a very dense eco-friendly package.

Designed with your needs in mind

The Dell PowerEdge C6100 is a hyperscale-inspired building block for high-performance cluster computing, Web 2.0 and cloud builders.

Find inside: Four independent nodes feature dual Intel® Xeon® 5500/5600 series quad- and hex-core processors. Slots include: 12 DDR3 memory, a x16 PCI Express generation 2 and a x8 PCI Express mezzanine slot. Includes dual-port embedded gigabit Ethernet, and an integrated IPMI 2.0 BMC with a dedicated RJ45 connection. Available with up to 12 x 3.5" or 24 x 2.5" hot-plug SAS, SATA or SSD drives.

Along with that capacity and flexibility, the PowerEdge C6100 high-efficiency fans and power supplies are shared across nodes, helping to save space and weight and creating an eco-friendly footprint.

Best-in-class density without sacrifice

Increasing density shouldn't mean sacrificing critical features such as single-node serviceability and hot-plug hard drive flexibility. With four 2-socket server nodes in a 2U rack chassis, the PowerEdge C6100 offers density with the convenience of both single-node serviceability and hot-plug 2.5" and 3.5" hard disk drives (HDDs). The result: an uncompromised, remarkably efficient server.

Ultimate flexibility in a standard 2U chassis

The PowerEdge C6100 has the specialized features you need to run your hyperscale applications. It has front-mounted 3.5" or 2.5" hot-plug hard drive options; up to four discrete 2-socket nodes; x16 PCIe slot and x8 mezzanine slot expansion options; IPMI 2.0 BMC for remote management; and single node serviceability. Together, these options enable the PowerEdge C6100 to easily adapt to a wide variety of workloads.

Save energy and increase efficiency

By sharing power supplies, fans and backplanes, the PowerEdge C6100 effectively supports reducing the total amount of power consumed,

helps to increase energy efficiency and assists to lower operating costs.

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

PowerEdge C server line


The PowerEdge C6100 is part of Dell's new hyperscale-inspired PowerEdge C server line designed to bring the most computer 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 purpose-built servers are designed for high performance computing, Web 2.0, data analytics, 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 C6100

- Intel Xeon 5500/5600 quad and hex core processors
- Up to 12 x 3.5" or 24 x 2.5" hot-plug hard drives
- Easily adapt to a wide variety of workloads
- Shared infrastructure can use less floor space, power and cooling

Feature	PowerEdge C6100 Technical Specifications
Chassis	2U rack mount
Processors	Up to four 2-socket servers, 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 DDR3 (1333 MHz), 16GB DDR3 (1066 MHz), 12 DIMM slots for up to 192GB 4GB/8GB/16GB low-volt DDR3 Samsung® Green Memory available 
Chipset	Intel 5520
Video	Integrated AST2050 with 64MB RAM
Acoustics	Typically configured 2.5" chassis in 23 +/- 2 C ambient Idle: LwA-UL = 7.0 bels, LpAm = 75 dBA
Primary Storage	Maximum internal storage: 36TB SATA/NL SAS
Drive Bays and Hard Drives	24 x 2.5" or 12 x 3.5" hard drive options 2.5" SAS (10K RPM): 146GB, 300GB, 600GB, 900GB 2.5" SAS (15K RPM): 146GB, 300GB 2.5" SATA (7.2K RPM): 500GB, 1TB 2.5" SATA SSD (SLC): 100GB 2.5" SATA SSD (MLC): 100GB, 200GB 3.5" SATA (7.2K): 250GB, 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 external (rear)
I/O Slots	1 PCIe x 8 mezzanine daughtercard slot and x 16 riser slot Mezzanine: Mellanox® ConnectX-2 40Gb/s dual-port QDR IB adapter (optional) Mezzanine: Intel 82599 dual-port 10GbE adapter (optional)
Drive Controller	ICH10R
RAID Controller	In PCIe slot: LSI 9260-8i add-in RAID controller (optional) In Mezzanine slot: LSI® 2008 6Gb SAS mezzanine (optional)
Power Supplies	Dual hot-plug redundant high-efficiency 470W/750W/1100W/1400W power supplies
Fans	Shared redundant cooling with 4 x 80mm speed fans detectable with PWM control
Operating Systems	Novell® SUSE® Linux® Enterprise Server 11 x64 SP2 Red Hat® Enterprise Linux® Microsoft® Windows Server® 2008 R2 Enterprise SP1 and HPC Server 2008 R2 x64 SP1
Server Management	Embedded BMC with IPMI 2.0 support with 1 x 10/100 Mbps RJ45 connector 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, not available in China) 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

