



HYPERSCALE-INSPIRED DESIGN

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 (HPCC), Web 2.0 and cloud builders.

Its ultra-dense 2U shared infrastructure chassis can support up to four independent nodes. Each independently serviceable server node features dual Intel® Xeon® 5500/5600 series quad- and hex-core processors, 12 DDR3 memory slots, x 16 PCI Express generation 2 slot, x 8 PCI Express mezzanine slot, dual-port embedded gigabit Ethernet (GbE) ports, and an integrated IPMI 2.0 BMC with a dedicated RJ45 connection. The highly efficient 2U rack chassis supports up to 12 x 3.5" or 24 x 2.5" hot-plug SAS, SATA or SSD hard drives.

The PowerEdge C6100 provides capacity, performance and flexibility in a very dense package. In addition to the 92% efficient hot-plug redundant power supplies, the PowerEdge C6100 shared infrastructure saves space and weight, producing one of the most eco-friendly designs yet.

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 maximum 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 with 2x the density capability of traditional 1U servers.

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; x 16 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 reduces the total amount of power consumed, increases energy efficiency and lowers operating 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 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, broad enterprise storage, or same-day support.

Global services and support

Dell is dedicated to simplifying IT, and Dell Services can help you manage the complexities of growing and maintaining your hyperscale, high performance and cloud computing environments. Dell's broad portfolio of

PowerEdge C6100

- 2x the density of traditional 1U
- 30% more storage than comparable HP products
- Shared infrastructure uses less floor space, power and cooling
- Service individual nodes to increase uptime by up to 75%

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.

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	
Front Side Bus	Intel QuickPath Interconnect	
Memory	2GB/4GB DDR3 (1066 MHz or 1333 MHz) 12 DIMM slots for up to 96GB L2/L3 cache: 4MB, 8MB, 12MB	
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: 12TB SATA or NL 24TB 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 2.5" SATA II (7.2K RPM): 160GB, 250GB, 500GB 2.5" SATA SSD (SLC): 50GB	3.5" SATA (7.2K): 250GB, 1TB 3.5" SAS (15K): 146GB, 300GB
Connectivity	2 embedded Intel® Kawela™ 82576 1 Gb Ethernet network interface card	
Ports - USB	2 USB ports external (rear)	
I/O Slots	1 PCIe x 8 mezzanine daughtercard slot and x 16 riser slot Mellanox® ConnectX-2 40Gb/s dual-port QDR IB adapter (optional) Intel 82599 dual-port 10GbE adapter (optional)	
Drive Controller	LSI 1068e 3Gb SAS/LSI 2008 6Gb SAS mezzanine	
RAID Controller	LSI 9260-8i add-in RAID controller	
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 Red Hat® Enterprise Linux 5.4	
Server Management	Embedded BMC with IPMI 2.0 support with 1 x 10/100 Mbps RJ45 connector	
Hypervisors (Optional)	Citrix® XenServer® 5.6 VMware® ESXi v4 update 1	
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 Keep Your Hard Drive Enterprise Wide Contract Specialized Onsite Services	

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