



HYPERSCALE-INSPIRED DESIGN

PowerEdge C6220

Get >80% more performance with up to four 2-socket Intel® Xeon® E5-2600 processor-based servers in a smart 2U shared infrastructure chassis that saves more than 100 watts over previous designs.

Designed with your needs in mind

Whether you're seismic processing, video rendering or running scientific simulations, server performance, bandwidth and efficiency can impact time and cost to results.

The ability to run high-frequency processors can increase performance.¹ Servers that can run at higher ambient temperatures can help reduce cooling costs. Simplified serviceability can save time while helping increase uptime, and the flexibility to run multiple configurations in the same chassis means the ability to do more with less.

We incorporated that customer feedback into the next-generation Dell™ PowerEdge™ C6220 server. This scale-out building block is a workhorse with up to four 2-socket Intel Xeon E5-2600 processor-based servers in a streamlined 2U shared infrastructure chassis.

Deliver results faster

The high volume of computations requires performance, from the processor to the memory to the interconnect. Intel Xeon processor E5-2600 product family features Turbo Boost Technology 2.0 to deliver more than 80% more performance than the Intel Xeon 5600 processors.²

In addition to this generational leap in processor performance, the PowerEdge C6220 server supports up to 135 watt processors, adding ~20% in performance over the 95 watt processor.³

When it comes to memory, 16 DIMM slots provide up to 256GB of memory per server node — up to four nodes — and 1600MT/s memory speed to help improve bandwidth per processor.

The Intel Xeon processor E5-2600 product family has 2.3x the memory bandwidth of the previous generation, with four memory channels, and the integrated I/O helps reduce latency up to 30%.⁴

Accomplish more with less

The space-conscious PowerEdge C6220 server comes in 1U and 2U-node versions, with a streamlined shared infrastructure chassis. The server nodes share Platinum-certified power supplies, high-efficiency fans, and enhanced power routing at the midplane to help improve power distribution, saving more than 100 watts.⁵

This server has fewer boards and connecting cables than the previous version, while providing easier access to components to help simplify and speed maintenance.

Mix workloads in the same chassis

Choose processors, memory, cards and connectivity per server node to mix workloads in the same chassis. The PowerEdge C6220 comes with 12 x 3.5" or 24 x 2.5" hard drives.

Feel free to use the x8 PCIe mezzanine slot for 10Gb Ethernet, InfiniBand, or SAS HBAs, and the standard x16 PCIe slot to connect to the PowerEdge C410x PCIe expansion chassis. The 2U-node version has twice the PCIe slots for more bandwidth, and room for a full-height, full-length card to increase expandability options.

Get the services and support you want

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 solution support with Dell Online Self Dispatch.

PowerEdge C6220

- Intel Xeon E5-2600 processors boost performance by > 80%
- 135W processors deliver ~20% more performance over 95W
- 2.3x the memory bandwidth than the previous generation
- Smart chassis improvements save more than 100W per chassis

| Feature | PowerEdge C6220 technical specifications | |
|--|--|---|
| Chassis | 2U rack mount | |
| Processors | Up to four 2-socket servers, 2, 4, 6, or 8 cores per processor Intel Xeon processor E5-2600 product family, with L3 cache: up to 20MB | |
| Memory | 16 DIMM slots for up to 512GB per node: 4GB/8GB/16GB/32GB LV DDR3 RDIMM (1333MT/s); 4GB/8GB/16GB (1600MT/s 1.5v/1.35v) DDR3 RDIMM | |
| Chipset | Intel C602 chipset | |
| Video | Integrated AST2300 with up to 16MB video RAM | |
| Primary storage | Maximum internal storage: 48TB SATA or NL 48TB SAS | |
| Drive bays and hard drives | 24 x 2.5" or 12 x 3.5" hard drive options 2.5" SAS (15K): 146GB, 300GB 2.5" SAS (10K): 300GB, 600GB, 900GB, 1.2TB 2.5" SATA and NL SAS (7.2K): 500GB, 1TB 2.5" SATA SSD (eMLC): 100GB, 200GB, 400GB, 800GB 2.5" SATA SSD (MLC): 160GB, 300GB, 600GB | 3.5" SATA (7.2K): 500GB, 1TB, 2TB, 3TB, 4TB 3.5" SAS (15K): 300GB, 600GB 3.5" NL SAS (7.2K): 1TB, 2TB, 3TB, 4TB |
| Connectivity | Intel Ethernet Controller i350, 2 x 1Gb Ethernet; 1 x 100Mb Ethernet dedicated management port | |
| USB ports | 2 external ports (back) | |
| I/O slots | 1U-node version: 1 x8 mezzanine, 1 x16 half-height (low profile), half-length slot 2U-node version: 1 x8 mezzanine slot; 1 x16 full-height, half-length slot; 1 x16 full-height, full-length slot | |
| I/O adapter options | 1Gb Ethernet Intel i350 quad-port 1Gb adapter Intel 82580 ET quad-port 1Gb mezz 10Gb Ethernet Intel 82599 dual-port 10Gb DA/SFP+ mezz Intel X520 dual-port 10Gb DA/SFP+ mezz | InfiniBand QLogic® QLE7340 QDR single-port adapter Mellanox® ConnectX®-2 QDR dual-port mezz Mellanox ConnectX-3 FDR single-port mezz Dell X410 host interface card (HIC) for connection to the C410x |
| Drive controller | Intel C602: SATA or SSD drives only; LSI® 2008 3Gbs SAS mezzanine or LSI 9265-8i 3Gbs (optional) | |
| RAID controller | LSI 2008 SAS mezzanine (optional) LSI 9210-8i SAS add-in controller (optional) LSI 9265-8i SAS add-in controller (optional) | |
| Power supplies | Dual hot-plug redundant high-efficiency 1200W/1400W power supplies | |
| Fans | Shared cooling with quick-disconnect 4 x 60mm speed fans detectable with PWM control | |
| Operating systems | Novell® SUSE® Linux Enterprise Server 11 SP2 Red Hat® Enterprise Linux® Microsoft® Windows Server® 2012 Microsoft Windows Server 2008 R2 Enterprise x64 SP1 Microsoft Windows® HPC Server 2008 R2 x64 SP1 | |
| Server management | Embedded BMC with IPMI 2.0 support with 1 x 10/100 Mbps RJ45 connector Intel Node Manager 2.0 compliant | |
| Hypervisors (optional) | Citrix® XenServer® VMware® vSphere® ESXi™ Microsoft Hyper-V® Server 2008 R2 SP1 | |
| Services (Availability varies by region. Please contact your sales representative for details.) | Data Center Consulting Services Rack Integration (U.S. only, not available in China) Rack Design Verification Configuration Services/CFI Onsite Deployment Online Self Dispatch Basic Support ProSupport for IT | ProSupport for Data Center 4-Hour Support Keep Your Hard Drive Enterprise Wide Contract IT Advisory Service Remote Advisory Service Certified Data Destruction Specialized Onsite Services |

The PowerEdge C6220 server is part of Dell's 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. They are purpose-built servers designed for high performance computing, Web 2.0, hosting, data analytics, and cloud building. They are best for rack deployments, large homogenous cluster/cloud 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 in a scale-out environment like comprehensive systems management, or broad enterprise storage.

Learn More at Dell.com/PowerEdgeC

¹ <http://www.intel.com/content/www/us/en/architecture-and-technology/turbo-boost/turbo-boost-technology.html>

² <http://www.intel.com/performance/index.htm>

³ <http://www.intel.com/content/www/us/en/architecture-and-technology/turbo-boost/turbo-boost-technology.html?wapkw=tdp%20performance>

⁴ <http://www.intel.com/content/www/us/en/it/i-o-expansion-modules.html#infinibad>

⁵ As a result of higher-efficiency power supplies, fans and power routing. According to Dell service technicians, improved chassis design reduced the tear-down time by an hour, measured in Dell labs January 2012.

