



HP ProLiant BL2x220c G5 Server Blade

Overview

The [HP ProLiant BL2x220c G5](#) is the world's first server blade to combine two independent servers in a single blade enclosure. It helps customers lower scale-out data center infrastructure costs by offering double the performance, greater energy efficiency and essentially cutting data center space requirements in half. The new blade is ideal for scale-out applications running on thousands of servers such as those deployed for Web 2.0, grids, compute farms, high-performance computing and cloud computing.

Through unmatched performance, the BL2x220c's unique two-in-one design ensures customers have the best performance per watt to scale to their workload needs. Compared to a similar Dell configuration, the blade achieves 60 percent better performance per watt.⁽¹⁾ This performance, combined with the server's compact design, makes it suitable for scale-out environments that require massive computing power, but have limited data center floor space. These businesses often include online social communities, financial modeling, digital animation, online gaming, web search, oil and gas, electronic design automation, and biotechnology research.

"With the new BL2x220c, HP has put together a product that offers greater processing density than anything else we have found on the market," said Monique Bradshaw, chief technology officer, WETA Digital in New Zealand. "The increased density will allow us to add a significantly higher number of processors into a confined physical footprint while still managing within tight power consumption and cooling requirements. We look forward to having one of the first installations of the BL2x220c and enjoying the many advantages this technology has to offer."

Key features

Supplying up to 1,024 central processing unit (CPU) cores in a single 42U rack, the BL2x220c is the industry's first server blade to offer more than three times the density of traditional 1U rack-mount servers. Additionally, the new server blade leverages HP's award-winning management and configuration tools that help drive down costs and mitigate risk. Key components include:

- Industry-leading density: Two servers per slot, up to 32 server nodes per HP BladeSystem c7000 enclosure or 16 per c3000 enclosure. Can scale up to 128 servers, 1,024 CPU cores and two terabytes of RAM in a single 42U rack.
- Industry-leading performance: Up to two Intel® Xeon® 5400 Series Quad Core CPUs or Intel Xeon 5200 Series Dual Core CPUs per server node. Unmatched blade speed of 12.3 teraflops per standard 42U rack requiring only eight square feet of data center raised floor space.

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- Change-ready connectivity supported through dual-gigabit Ethernet network interface card and HP Virtual Connect. Optional x8 PCI-Express mezzanine socket supporting 4x double data rate InfiniBand fabric for low latency and high bandwidth.
- Easy remote management capabilities with HP Integrated Lights-Out 2 (iLO2) Standard Blade Edition and comprehensive system monitoring with HP Insight Control Environment for HP BladeSystem.

Full specifications for the HP ProLiant BL2x220c G5 are available [here](#).

Availability and pricing

The HP ProLiant BL2x220c G5 is available today directly from HP as well as resellers at a starting price of US\$6,349.⁽²⁾ In addition, customers can speed their time to deployment by having their BladeSystem orders configured, installed and delivered in a rack from [HP Factory Express](#).

⁽¹⁾ Based on internal testing, the BL2x220c achieves 1,582.73 business operations per second (bops)/watt compared to 958.86 bops/watt on a cluster of Dell PowerEdge M600 servers.

⁽²⁾ Estimated U.S. street price. Actual price may vary.

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