



HP ProLiant BL2x220c G6 Server Blade

Data sheet



The double-dense HP ProLiant BL2x220c G6 Server Blade offers excellent compute density and power efficiency for scale-out and grid environments, while supporting the latest high-performing technology for compute-intensive workloads.

The HP ProLiant BL2x220c G6 Server Blade is the latest addition to the HP BladeSystem portfolio. The industry's only two-in-one server blade, the BL2x220c G6's dense form factor helps scale-out and cluster computing environments utilize their infrastructure resources effectively. Aided by Intel® Xeon® 5600 and 5500 series processors, DDR3 memory, and other enhancements, the BL2x220c G6 reduces energy expenditures and improves performance.

The Intel® Xeon® processors provide considerable performance improvements and faster input-output (I/O) throughput, while the new low voltage DDR3 memory provides high levels of energy efficiency and reduces cooling costs. With support for up to 32 server nodes per enclosure and two quad-core CPUs per node, the BL2x220c G6 expands to provide up to 1536 cores and 12 TB of memory in a 42U rack. Also, the large memory footprint of 96 GB of DDR3 memory per server node offers excellent scalability.

Insight Control facilitates easy and efficient management with rapid and reliable server deployment, proactive health monitoring, remote management, and enhanced power management to help you save time and money.

Key features and benefits

Performance

- Supports two 95W, 80W, 60W, or 40W Intel® Xeon® 5600 or 5500 Series processors per server node—the latest high-performance Intel processors
- Increases performance per watt for memory-intensive applications with support of up to 96 GB of power-efficient DDR3 Registered or Unbuffered DIMMs
- Supports one I/O expansion mezzanine slot (x8 PCI Express Gen 2) per server node, which greatly improves bandwidth and data throughput with additional levels of uptime
- Provides a choice of non-hot plug small form factor (SFF) Serial ATA (SATA) drives or Solid State Drives (SSD)
- Comes with an integrated dual-port 1 Gb Ethernet server adapter, which helps fine-tune networking and reduce network costs

Energy efficiency

- Helps conserve power without affecting performance with the built-in HP Power Regulator that provides an innovative operating system-independent power management feature for server power consumption and system performance
- Reclaims trapped power in your data center by safely limiting server power consumption with Insight Control and Dynamic Power Capping technology

Management

- Powerful management tools enhance and control all aspects of your infrastructure.
- HP Insight software lets you build infrastructure management capabilities as you need them.
- HP ProLiant Onboard Administrator (powered by the Integrated Lights-Out 2 management processor) simplifies server setup, health monitoring, power and thermal control, and lights-out remote administration of ProLiant ML, DL, and BL servers.

HP Services

When Technology works. Business works.

The challenge of virtually every technology organization is similar: To develop and maintain an agile, efficient server infrastructure that delivers the service levels your business needs.

HP Technology Services offer a comprehensive portfolio of HP Care Pack Services to help design, deploy, manage, and support your blades environment, with easy-to-buy, easy-to-use support packages.

Minimum Recommended HP Care Pack offerings

- Three-year 4-hour response onsite 24-hour x 7-day hardware support
- Blades Infrastructure plus Enhanced Network installation and start up services

Enhanced service level HP Care Pack offerings

- **Three-year Support Plus 24:** Integrated 24x7 hardware and software support.
- **Proactive Select:** Access to HP best-in-class technical consultants. Purchase service credits and obtain expertise when needed.

Benefit from HP Care Pack Services, helping you:

- Reduce deployment time and manage blades server solutions smoothly and efficiently.
- Increase uptime and performance of servers' availability to your business.
- Detect, diagnose, and repair problems to quickly save time, money, and resources.

For more information, visit

www.hp.com/services/bladesystem or

www.hp.com/go/proliant/carepack

- HP Insight Control allows you to deploy servers rapidly, proactively monitor system health and performance, help optimize power consumption, and remotely control your entire server environment from anywhere.
- HP Insight Dynamics suite for ProLiant servers delivers comprehensive functions for enhancing and balancing resources and workloads in real time.

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Processor and memory

Processor type	Intel® Xeon® 5600 and 5500 Series processors
Processors	Model X5670: 2.93 GHz, 12 MB L3 cache, 95W Model X5660: 2.80 GHz, 12 MB L3 cache, 95W Model X5650: 2.66 GHz, 12 MB L3 cache, 95W Model E5640: 2.66 GHz, 12 MB L3 cache, 80W Model E5630: 2.53 GHz, 12 MB L3 cache, 80W Model E5620: 2.40 GHz, 12 MB L3 cache, 80W Model L5640: 2.26 GHz, 12 MB L3 cache, 60W Model L5630: 2.13 GHz, 12 MB L3 cache, 40W Model X5570: 2.93 GHz, 8 MB L3 cache, 95W Model X5560: 2.80 GHz, 8 MB L3 cache, 95W Model X5550: 2.66 GHz, 8 MB L3 cache, 95W Model E5540: 2.53 GHz, 8 MB L3 cache, 80W Model E5530: 2.40 GHz, 8 MB L3 cache, 80W Model E5506: 2.13 GHz, 8 MB L3 cache, 80W Model L5530: 2.40 GHz, 8 MB L3 cache, 60W Model L5520: 2.26 GHz, 8 MB L3 cache, 60W Model L5506: 2.13 GHz, 8 MB L3 cache, 60W
Processor core	6 or 4 core
Processor capacity	2 per server
Maximum processor speed	2.93 GHz
Processors per 42U enclosure	256
Memory type	PC3-10600 (DDR3-1333) Registered and Unbuffered DIMMs
Standard memory	24 GB per server node
Maximum memory	96 GB per server node
Storage	
Storage type	1 Non-Hot Plug SFF SATA HDD or SSD per server
Hard drives supported	250 GB NHP SATA HDD 120 GB NHP SATA HDD 64 GB NHP SSD 32 GB NHP SSD
Expansion slot	1 PCIe x8 mezzanine expansion slot per server
Deployment	
Form factor chassis	Blade
Networking	2 integrated 1 Gb Ethernet ports per server
Redundant power supply	Enclosure-based power
Warranty—year(s) (parts/labor/onsite)	3/0/0
Management	HP ProLiant Onboard Administrator

For additional technical specifications, please visit the ProLiant BL2x220c G6 QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/13489_div/13489_div.pdf

Ideal environments

The BL2x220c G6 is ideal for high-performance computing, grid, and scale-out environments where jobs are distributed across a large number of nodes.

For more information

For more information about the HP ProLiant BL2x220c G6 Server Blade, visit www.hp.com/servers/bl2x220c

HP Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire and manage your HP solutions. For more information about these services, contact your HP sales representative or visit www.hp.com/go/hpfinancialservices

Technology for better business outcomes

To learn more, visit www.hp.com/servers/bl2x220c

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