

HP ProLiant BL465c Server Blade

Data sheet



The HP ProLiant BL465c Server Blade provides enterprise-class features for high performance and reliability without compromising density. With features equal to standard 1U rack-mount servers, the two-processor, dual-core ProLiant BL465c combines power-efficient compute power and high density with expanded memory and I/O.

The HP BladeSystem c7000 enclosure supports up to 16 BL465c server blades. A performance system that is ideal for a full range of scale-out applications, this server features next-generation AMD Opteron™ processors with DDR2 memory, serial-attached SCSI (SAS) or serial ATA (SATA) hard drives, and support for multi-function gigabit NICs and multiple I/O cards. In a small form factor, the BL465c includes powerful features to maintain high availability such as hot-plug hard drives, memory interleaving and embedded RAID capability.

The ProLiant BL465c also includes ProLiant management tools, including enhanced remote Integrated Lights-Out 2 (iLO 2) management to ease server deployment and lifecycle management when resources are limited.

Key benefits

Ideal for multi-tiered enterprise applications, high-performance computing and corporate infrastructures, the ProLiant BL465c delivers enterprise performance, reliability and flexibility at an affordable price.

Concentrated performance

- Up to two AMD Opteron 2000 Series processors with AMD Virtualization™ technology to improve performance in a virtual environment
- Support for up to 32 GB of ECC 667 MHz DDR2 registered DIMMs; with memory interleaving capability
- Two mezzanine expansion slots allow for I/O options, such as, additional multi-function gigabit NICs, standard gigabit NICs, 4-Gb Fibre Channel, or InfiniBand, which greatly improve I/O bandwidth and data throughput and offer additional levels of uptime.
- Embedded Smart Array E200i controller with 64 MB read cache and optional 128 MB battery-backed write cache

Next-generation AMD Opteron™ processors, DDR2 memory and serial I/O technologies deliver concentrated compute power, enabling greater system scalability.

- Lower power processors, disk drives, HP Power Regulator technology and support for AMD PowerNow!™ technology with Optimized Power Management (OPM)—delivering more performance per U and greater performance per watt.
- Serial-attached SCSI or SATA—with up to two SAS or SATA drives and a Smart Array RAID controller, you get quicker access to data and increased storage bandwidth for cutting edge storage performance. Multiple drive technologies provide unique price/performance configuration options.
- Embedded multi-function gigabit NICs with TCP/IP offload engine—the TCP/IP offload engine reduces network latency by offloading network traffic processing from the CPU. These high-performance gigabit NICs are ideal for TCP/IP and iSCSI networks.

Simplified management

- Integrated Lights Out 2 (iLO 2) Management for unprecedented, high-speed management includes virtual KVM and graphical remote console at no additional cost.
- New HP Insight Power Manager software provides centralized control of server power consumption and thermal output at the data center level through HP Systems Insight Manager.
- Smart power and thermal management are now available with HP Power Regulator for policy-based power management.

Flexibility

- Storage support for up to two high-performance small form factor hot-plug serial disk drives
- Low voltage processor options targeted at most efficient performance per U and performance per watt resulting in cooler, power-enhanced systems
- Optional battery-backed write cache option to protect against data loss
- Fine-tuned for greater density deployments of 64-bit systems without sacrificing functionality and an internal USB connector for enhanced security

Management software and configuration tools

Industry-leading management and configuration tools offer superior remote administration, superb lifecycle management and resource utilization.

- Conserve valuable IT resources and time by centralizing and simplifying management functions with HP Integrated Lights-Out 2 (iLO 2) Standard Blade Edition, HP Onboard Administrator and Insight Control management software.
- iLO 2 Standard Blade Edition delivers the industry's most complete, high-performance, out-of-band remote management solution. Now IT customers have a single remote management and control solution. Learn more about Integrated Lights-Out 2 at www.hp.com/go/ilo.
- Onboard Administrator together with the server blade enclosure Insight Display enable fast, simple enclosure setup and configuration and provide a dashboard view of enclosure health. Learn more about Onboard Administrator at www.hp.com/learn/onboard.

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Processor and memory

Available processors	Dual-Core AMD Opteron™ processors: Model 2220: 2.8 GHz Model 2218: 2.6 GHz Low Power Model 2218 HE: 2.6 GHz ¹ Model 2216: 2.4 GHz ¹ Low Power Model 2216 HE: 2.4 GHz Low Power Model 2214 HE: 2.2 GHz Low Power Model 2212 HE: 2.0 GHz ¹ Model 2210: 1.8 GHz ¹ Low Power Model 2210 HE: 1.8 GHz Ultra Low Power Model 2210 EE: 1.8 GHz ¹
Number of processors	1-2
Processor cores	Dual
Cache	1 MB L2 per core
Processors per 42U rack	128
Memory type	PC2-5300 DDR2 Registered DIMMs
Standard/maximum memory	1 or 2 GB (depending on model)/32 GB

Storage

Maximum internal storage	2 hot plug Small Form Factor (SFF) SAS 292 GB (2 x 146 GB) or 2 hot plug SFF SATA 240 GB (2 x 120 GB)
Number of disk drives	Up to 2
Removable media bays	2
Expansion slots	2
Fibre Channel SAN support	Yes
Storage controller	Smart Array E200i

Deployment

Form factor	10U enclosure (16 server blades per enclosure)
Networking	Two integrated Multifunction Gigabit NICs (additional via mezzanine card)
Remote management	Embedded iLO 2 Standard Blade Edition
Redundant power supply	Enclosure-based power
Redundant fans	Not available
Warranty	3-year parts, 3-year labor, 3-year onsite

¹ Available through configure-to-order (CTO) or specials only



- Insight Control Data Center Edition is an integrated suite of software that simplifies the provisioning and management of HP BladeSystem infrastructures. Built on Linux and open source components, Insight Control Linux Edition delivers Linux-friendly deployment and in-depth management of BladeSystem ProLiant servers. For additional product and licensing information about Insight Control Data Center Edition, Insight Control Linux Edition, Systems Insight Manager and ProLiant Essentials software visit:

www.hp.com/go/insightcontrol.

Financial services

HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire, manage and ultimately retire your HP solutions. For more information, contact your local HP representative, or visit:

www.hp.com/go/hpfinancialservices.

For more information

For more information about the HP ProLiant BL465c Server Blade contact your local HP representative, or visit: www.hp.com/servers/bl465c.

HP Services

HP Services offers a comprehensive range of services to help design, deploy, manage and support your IT environment and business processes. Our 69,000 skilled professionals and network of service partners deliver global services capabilities across the IT lifecycle, including consulting, integration, outsourcing and support.

HP Care Pack Services deliver continuous care

Cost-effectively upgrade or extend your standard warranty with easy-to-buy, easy-to-use support packages. They reduce downtime risks with support levels that range from basic to mission-critical. HP Care Pack Services are available for purchase along with your ProLiant BL465c server blade.

Recommended service offerings:

Enhanced Care options provide a baseline service level to achieve optimum server availability.

HP ProLiant BL465c – 3-year, 13x5, same-business-day, 4-hour onsite response hardware support

Continuous Care options deliver a recommended support level with committed same-day response or fix times.

HP ProLiant BL465c – 3-year, 24x7, same-business-day, 4-hour onsite response hardware support

Total Care service options are designed to provide round-the-clock response and complex problem resolution through integrated hardware and software support.

HP ProLiant BL465c – 3-year, 24x7, Support Plus 24

Deployment Services include HP Installation and Startup services designed to take the time, risk and worry out of the deployment of ProLiant blade servers.

HP ProLiant BL465c – Installation and Startup for BladeSystem c-Class infrastructure service

For more information, please visit:

www.hp.com/services/bladessystemservices

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To learn more, visit www.hp.com/servers/bl465c

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