



HP ProLiant BL465c G6 Server Blade

Data Sheet



The HP ProLiant BL465c G6 delivers uncompromising performance and expandability, industry-leading management tools, and the latest technologies for dense compute environments. HP offers powerful, reliable server blades with the same trusted features as award-winning HP rack and tower servers. With features equal to standard 1U rack mount servers, the two-processor BL465c G6 combines energy-efficient compute power and high density with expanded memory and I/O for improved performance. A balanced architecture featuring Six-Core AMD Opteron™ processors with DDR2 memory, serial hard-drives, support for Multifunction Gigabit networking, and multiple I/O cards provides a performance system ideal for a full range of applications. In this small form factor, the BL465c G6 includes features to provide high availability such as hot plug hard drives, memory interleaving, embedded RAID capability, and enhanced remote Lights-Out management.

Every business faces challenges

Escalating costs: The goal of every IT department is to provide reliable IT service delivery to the business at the lowest possible cost. However the operating costs of traditional IT infrastructures can make up a high percentage of the total spend on IT, constraining the ability to lower over-all computing costs.

Constant change: One of the biggest barriers to change in the typical data center is the manual coordination required across multiple groups to synchronize internal processes. The hard-wired and static design of IT infrastructures forces manual, one-to-one IT practices. Ultimately, process speed depends on how many people must be involved. A 30-minute task is not done in 30 minutes, if multiple people and three days are needed to schedule and execute it.

Growing power and cooling needs: As data center electricity bills soar, the cost of powering a server over three years threatens to outstrip its acquisition cost. At the same time, servers grow denser and hotter, drawing more power and requiring more air conditioning to cool. Today, many data centers are constrained by their limited power and cooling resources, threatening their ability to grow to meet business needs.

Time-consuming processes: Low productivity and down time in the average data center waste millions of dollars per week. To reach better device-to-administrator ratios, each step, task, and process must be simplified to reach higher levels of efficiency and flexibility.

Gain from simplicity, agility, and value

Cost-savvy: The consolidated design is more affordable to buy and efficient to own than conventional IT. It reduces IT cost and complexity, enables resources to work together, and facilitates easy implementation of change.

To reduce the constraints of conventional IT infrastructures, the HP BladeSystem delivers the best-run IT infrastructure out-of-the-box—unifying server, storage, network, power/cooling, and management capabilities to create unlimited possibilities for business.

Change-ready: HP Virtual Connect removes barriers to change and enables you to adapt in real time to business, creating a competitive advantage.

Energy-thrifty: HP Thermal Logic technology improves efficiency by managing power and cooling.

Time-smart: HP Insight Control manages a pre-integrated, automated infrastructure to save valuable time.

Features and benefits

Enhance performance

- Increase performance of existing x86/64 virtualization solutions with up to two (2) Six-Core AMD Opteron™ 2400 Series processors with AMD Dual Dynamic Power Management™
- Benefit from better performance with support for up to 64 GB of ECC Registered DDR2 DIMMs and memory interleaving capability
- Enable versatile configuration with two (2) mezzanine I/O expansion slots
- Deliver increased disk performance and reliability with HP Smart Array E200i storage controller with 64 MB read cache and optional battery-backed write cache

Simplify deployment and lifecycle management

- Gain from industry-leading remote control and embedded health management including virtual KVM and graphical remote console with ProLiant Onboard Administrator powered by iLO 2
- Centralize control of server power consumption and thermal output, reliable security, and energy savings with HP iLO Power Management Pack software
- Control power consumption and system performance with the HP Power Regulator
- Enable comprehensive system health, remote control, vulnerability scanning, and patch

management, as well as flexible deployment and power management in an easy-to-install software suite—The HP Insight Control suite

Gain flexibility with a variety of options

- Low wattage processor options: Targeted at better performance per U and performance per watt resulting in cooler, power-optimized systems
- Protect against data loss with local storage options including high-performance small form factor hot plug serial disk drives and a battery-backed write cache option
- I/O expansion with optional Fibre Channel, iSCSI, Ethernet, InfiniBand, and SAS mezzanine cards
- For additional local storage, data protection, or PCI card expansion, use direct-attach blades

HP Services

When Technology Works, Business Works

The challenge of virtually every IT 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 four-hour response onsite 24-hour x 7-day hardware support.
- Blades Infrastructure plus Enhanced Network installation and start-up services.

Enhanced service-level 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 save time, money, and resources quickly.

For more information, visit

www.hp.com/services/bladestystem or
www.hp.com/go/proliant/carespack

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Processor and memory

Number of processors	1–2
Maximum number of cores	12
Processors supported	Six-Core AMD Opteron™ processors: Model 2435 (2.6 GHz) Model 2427 (2.2 GHz)
Low wattage processor offerings	Yes
Cache	512 KB L2 cache per core 6 MB L3 cache
Maximum HyperTransport speed	2.2 GHz
Memory type	PC2-6400 Registered DDR2 800 MHz PC2-5300 Registered DDR2 667 MHz
Standard memory	4 GB
Maximum memory	64 GB
Advanced memory protection	Advanced ECC

Storage

Storage type	Hot plug SFF SAS Hot plug SFF SATA
Maximum internal storage	Up to 2: Hot plug SFF SAS 15K 146/72/36 GB or 10K 300/146/72/36 GB; Hot plug SFF SATA 5.4K 120/250 GB;
Maximum internal drive bays	2
Expansion slots	2
Storage controller	Smart Array E200i Controller

Deployment

Form factor	Blade
Rack height	16 blades in 10U or 8 blades in 6U
Networking	2 embedded NC370i Multifunction Gigabit Server Adapters 1 additional 10/100 server adapter dedicated to iLO 2
Remote management	ProLiant Onboard Administrator powered by iLO 2
Redundant power supply	Enclosure-based power
Warranty	3 year-parts/3-year labor/3-year onsite

For additional technical specifications, please visit the http://h18000.www1.hp.com/products/quickspecs/13348_div/13348_div.pdf

Latest technology for dense compute environments

- Benefit from greater density deployments of 64-bit systems without sacrificing functionality
- Reduce system bottlenecks with support for up to eight (8) Registered DDR2 DIMM memory expansion slots
- Up to two (2) hot plug small form factor serial hard drives
- Simultaneously supports multiple I/O cards with two (2) expansion slots

Why HP over other blade choices?

Our unique innovations solve your biggest challenges. HP has the good stuff built-in from the start. We combined technology from across HP to make our blades easy to use and useful to you.

- **Thermal Logic technologies:** Smart technology saves you energy every second and lightens the load on your air conditioners, saving 30 percent of power.
- **Virtual Connect architecture:** Wire once, then add, replace or recover blades on the fly, without impacting networks and storage, or creating extra steps.
- **Insight Control management:** Simple, single package with all the tools to streamline operations and increase administrator productivity up to tenfold.

- **NonStop midplane:** The same million-dollar reliability that helps run Wall Street is built-in to keep your business up and running.
- **Onboard Administrator:** Wizards to get you up and running fast, paired with useful tools to simplify daily tasks, warn of potential issues, and assist you with repairs.

The easiest way to invest in IT

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 G6 Server Blade, please contact your local HP representative, or visit www.hp.com/servers/bl465c

To connect with other blade customers, partners, and experts, visit the HP Blade Connect online community: www.hp.com/go/bladeconnect

Technology for better business outcomes

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

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