HP ProLiant BL465c G7 Server Blade

Data sheet

As your business grows, so does your need for server management.

Enhanced compute power, improved remote server manageability, and reduced networking complexity are what the HP ProLiant BL465c G7 Server Blade can help you achieve.

The HP ProLiant BL465c G7 Server Blade features the latest AMD Opteron processors, integrated HP Virtual Connect FlexFabric architecture, and enhanced HP Integrated Lights-Out 3 (iLO 3) remote management, helping to simplify network connections, lower infrastructure costs, and deliver the performance that you expect for demanding application workloads. Incorporating superior features from the previous generation of servers, this new and enhanced of server blade comes with an HP Smart Array, support for hot-plug drives, 16 DIMM sockets, and Virtual Connect FlexFabric networking. What's more, the ProLiant BL465c G7 Server Blade gives you a competitive advantage with enhanced memory capacity and networking capabilities.

All-new features at a great price

Improve performance of your applications
Up to two new Multi-Core AMD Opteron 6100 series processors help deliver superior performance. With the latest power-efficient technologies such as AMD CoolCore, PowerNow!, and CoolSpeed, the ProLiant BL465c G7 Server Blade has the processing power you need to drive virtualization and mainstream business applications.

Buy less and connect more
The ProLiant BL465c G7 Server Blade comes with an embedded dual-port HP FlexFabric 10 Gb Converged Network adapter to help reduce infrastructure cost and save overall power consumption by converging local area network (LAN) and storage area network (SAN) connections at the server level.

Unleash the power of remote management
HP iLO 3 server management software delivers remote console performance almost 8x (eight times) faster than iLO 2. Alerts are sent from iLO 3 regardless of the state of the host server and helps you access advanced troubleshooting features. Now you can control your data center from outside the office—reducing travel time and server management expense.

Key features and benefits

Enhanced compute power
With the latest 16-core, 12-core, and 8-core AMD Opteron processors, you get outstanding compute power for your ever-increasing application workloads.

• Up to 512 GB of DDR3 registered or unbuffered DIMMs with advanced ECC provides a large memory footprint for virtualization and demanding applications.

• High-performance Smart Array P410i controller, with 1 GB flash-backed write cache (FBWC) module, is ideal for RAID levels 0 and 1.

• Up to two hot-plug small form factor (SFF) SAS, SATA, or SSD drives provide versatile configuration and deployment options.

• Internal USB and microSD card slots enable simple and flexible hypervisor deployments.

Improved networking technology
The ProLiant BL465c G7 Server Blade's embedded HP NC551i Dual-Port FlexFabric 10 Gb Converged Network Adapter delivers improved performance and cost savings of converged network connectivity. It helps:

• Sustain sufficient bandwidth for network-intensive applications

• Enhance network and storage traffic with hardware acceleration and stateless TCP/IP offload, TCP Offload Engine, Fibre Channel over Ethernet (FCoE), and iSCSI protocols

• Reduce infrastructure costs and simplify management by converging LAN and SAN traffic over the same flexible 10 Gb Ethernet connection

• Provide (up to) eight connections to network and storage without the need for add-in mezzanine cards

• Divide and fine-tune network and storage bandwidth to match application requirements

Industry-leading infrastructure management
The HP Insight Dynamics suite for ProLiant servers is an advanced infrastructure management software toolkit that allows you to analyze and enhance your adaptive infrastructure, giving you a powerful means of accelerating complex technology projects and simplifying daily operations. The Insight Dynamics suite is based on proven HP technologies, such as HP Virtual Connect, HP Insight Control, HP iLO 3, and HP Systems Insight Manager.

HP Insight Control is essential server management software that helps deploy servers quickly, proactively manage virtual or physical server health, control servers from almost anywhere, and optimize power consumption. Insight Control helps you manage HP servers running Microsoft® Windows® and Citrix XenServer environments. You can integrate Insight Control with leading third-party enterprise management consoles, such as Microsoft System Center and VMware vCenter.

The iLO 3 subsystem is a standard component of the ProLiant BL465c G7 Server Blade that facilitates remote server manageability. It includes an intelligent microprocessor, secure memory, and a dedicated network interface. This design makes iLO 3 independent of the host server and its operating system. In addition to providing world-class remote management functionality, iLO 3 is also responsible for managing the health of your server.

For more information about HP Insight Control management software for ProLiant servers, visit:
www.hp.com/go/insightcontrol

Competitive advantage
Technology or compute power alone does not provide a competitive advantage. Your server needs to deliver an ideal combination of performance, networking capability, and memory capacity—and it has to deliver all this while providing good value for your money. The ProLiant BL465c G7 Server Blade does just this.

Why choose the ProLiant BL465c G7 Server Blade?

Before you make your choice, it is recommended that you consider and evaluate what you need in order to:

• Meet the demands of your growing business

• Enhance the performance of your demanding application workloads and mainstream business applications

• Achieve the goals of your virtualization roadmap

• Enable efficient remote manageability

• Improve the compute power of your business

The ProLiant BL465c G7 Server Blade can help you do all of this—at an affordable price. That is why it is the right choice for organizations looking to get value for their money.

Technical specifications

HP ProLiant BL465c G7 Server Blade

Processor and memory	
Number of processors	2
Maximum number of cores	Up to 32
Processors supported	AMD Opteron 6200 or 6100 Series
Low-wattage processor offerings	Yes
Cache	16 MB L3 cache
Memory type	DDR3 RDIMM or UDIMM
Standard memory	8 GB
Maximum memory	512 GB
Advanced memory protection	Advanced ECC
Memory slots	16 DIMMs

Storage	
Storage type	Hot-plug SFF SAS Hot-plug SFF SATA Hot-plug SFF SDD
Maximum internal storage	2 TB
Maximum internal drive bays	2
Expansion slots	2 PCIe x8 Gen 2 (mezzanine)
Storage controller	Smart Array P410i Controller with 1 GB FBWC

Deployment	
Form factor	Half-height blade
Rack height	16 server blades in a 10U enclosure or 8 server blades in a 6U enclosure
Networking	HP NC551i Dual-Port FlexFabric 10 Gb Network Adapter Ethernet/iSCSI/Flex-10/FCoE
Remote management	HP Integrated Lights-Out 3 (iLO 3)
Redundant power supply	Enclosure-based power
Warranty	3-year parts/3-year labor/3-year onsite

For additional technical specifications, please visit: **http://h18000.www1.hp.com/products/quickspecs/13654_div/13654_div.pdf**

HP 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

To learn how the new HP ProLiant BL465c G7 Server Blade can help you achieve enhanced compute power, improved remote server manageability, and reduced complexity of networking hardware, 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**

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 offers a comprehensive portfolio of HP Care Pack services—easy-to-buy, easy-to-use support packages to help design, deploy, manage, and support your IT environment.

Minimum recommended HP Care Pack offerings:

• Installation and startup for HP BladeSystem Infrastructure
• 3-year, 6-hour or 3-year, 24-hour call to repair

Related service-level HP Care Pack offerings:

• 24x7 same business day response
• Onsite 4-hour response
• Support Plus 24—integrated 24x7 hardware and software support
• Proactive Select—access HP technical consultants, purchase service credits, and obtain expertise when needed

Benefit from HP Care Pack services, helping you:

• Reduce deployment time and manage server blade solutions smoothly and efficiently
• Increase server uptime, performance, and availability to your business
• Detect, diagnose, and repair problems quickly, saving time, money, and resources

For more information, visit: **www.hp.com/go/proliant/carepack**

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