

# HP ProLiant BL465c Server Blade

Data sheet



The new HP ProLiant BL465c server blade provides enterprise-class features for high performance and reliability without compromising density. With industry-leading management tools and the latest technologies for dense compute environments, the ProLiant BL465c has features equal to standard 1U rack mount servers.

Next-Generation AMD Opteron™ processors with DDR2 memory, Serial Attached SCSI (SAS) or Serial ATA (SATA) hard-drives, support of Multifunction Gigabit NICs and multiple I/O cards make the ProLiant BL465c ideal for a full range of scale out applications. In this small form factor, the ProLiant BL465c includes features to ensure high availability such as hot-plug hard drives, memory interleaving, embedded RAID capability and enhanced remote Lights-Out management.

Providing enterprise performance and reliability at an affordable price, the ProLiant BL465c includes ProLiant management tools to ease server deployment and lifecycle management when resources are limited.

## Key features and benefits

- AMD Opteron 2000 Series processors—64-bit dual-core computing with AMD's Direct Connect Architecture delivers industry leading price performance and performance-per-watt.
- AMD Direct Connect Architecture—Eliminates the bottlenecks inherent in traditional front-side bus architectures thereby increasing system performance.
- Serial Attached SCSI or SATA—With up to two SAS or SATA drives and a new Smart Array RAID controller, you get quicker access to data and increase storage bandwidth for cutting edge storage performance. Multiple drive technologies provide unique price/performance configuration options.
- Embedded Multifunction 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.

# Next-Generation AMD Opteron™ processors, DDR2 memory, and serial I/O technologies deliver concentrated compute power allowing for greater system scalability.

- Two mezzanine expansion slots—2 slots (1-x4, 1-x8) allow for configuration options, such as, Multifunction 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 RAID controller, 128MB transportable battery-backed write cache option—Embedded RAID controller frees up serial I/O slots for maximum expandability. Optional BBWC available for additional data protection.
- Lower power processors, disk drives and HP power regulator technology—More performance per U and greater performance per watt.
- Up to 32GB ECC 667MHz DDR2 memory to eliminate system bottlenecks
- HP Smart Array E200i for hardware RAID 0 and 1 (optional battery backed-write cache)
- Two embedded Multifunction Gigabit NICs with TOE and RDMA/iSCSI options
- Choose between up to two hot-plug small form factor high performance serial attached SCSI (SAS) drives or lower cost serial ATA (SATA) drives
- Support a wide variety of I/O mezzanine cards simultaneously

## Key benefits

### Concentrated compute power

Next-Generation AMD Opteron processors, DDR2 memory, and serial I/O technologies deliver concentrated compute power allowing for greater system scalability.

- Up to two Next-Generation AMD Opteron 2000 Series processors with AMD Virtualization™ to improve performance in a virtual environment

### Deployment versatility in an efficient dense form factor

Embedded technologies and two mezzanine slots offer deployment versatility in a dense form factor.

The virtual presence of embedded Lights-Out technology provides secure remote console and remote control. Optional high speed graphical remote console and virtual media functionality further enhance the feature set. High performance Smart Array and Multifunction Gigabit NICs maximize I/O performance. Two mezzanine slots and two SAS or SATA drive bays allow for versatile configuration and deployment options.

## BL465c Server Blade



### Processor and memory

<b>Available processors</b>	AMD Opteron processor Model 2218, 2.6 GHz AMD Opteron processor Model 2216, 2.4 GHz* AMD Opteron processor Model 2216 HE, 2.4 GHz (Low Power) AMD Opteron processor Model 2214 HE, 2.2 GHz (Low Power) AMD Opteron processor Model 2212 HE, 2.0 GHz* (Low Power) AMD Opteron processor Model 2210, 1.8 GHz* AMD Opteron processor Model 2210 HE, 1.8 GHz (Low Power) * <b>Note:</b> Available through Configure-To-Order (CTO) or specials only
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<b>Processor capacity</b>	2
<b>Maximum processor</b>	AMD Opteron processor Model 2218, 2.6 GHz
<b>Memory type</b>	PC2-5300 Registered DDR2 DIMMs, 667 MHz
<b>Maximum memory</b>	32 GB

### Storage

<b>Storage type</b>	Small Form Factor Hot Plug Serial Attached SCSI (SAS) or SATA
<b>Max drive bays</b>	2
<b>Fibre Channel SAN support</b>	Yes
<b>Storage controller</b>	Smart Array E200i

### Deployment

<b>Maximum blades per enclosure</b>	16 blades in 10U
<b>Networking</b>	Two integrated Multifunction Gigabit NICs (additional via mezzanine card)
<b>Remote management</b>	Embedded iLO 2 Standard Blade Edition
<b>Warranty</b>	3-year parts, 3-year labor, 3-year on-site

### Industry-leading management and configuration tools

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

- Conserve valuable IT resources and time by centralizing and simplifying management functions with Integrated Lights-Out 2 (iLO 2) Standard Blade Edition and Insight Control Data Center Edition.
- Integrated Lights-Out 2 (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/servers/iloadv2](http://www.hp.com/servers/iloadv2).

- Insight Control Data Center Edition is an integrated suite of software that simplifies the provisioning and management of HP BladeSystem infrastructures. For additional product and licensing information about Insight Control Data Center Edition, HP Systems Insight Manager and Essentials software refer to [www.hp.com/go/insightcontrol](http://www.hp.com/go/insightcontrol).

## Technology services

HP Technology Services provides a range of services to commercial and enterprise customers. For more information, contact your HP sales representative or visit [www.hp.com/hps/support](http://www.hp.com/hps/support).

## Financial services

HP Financial Services provides financing and financial asset management programs. For more information, contact your HP sales representative or visit [www.hp.com/go/hpfinancialservices](http://www.hp.com/go/hpfinancialservices).

## For more information

For more information about the HP ProLiant BL465c Server Blade, visit [www.hp.com/servers/bl465c](http://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 warrant 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.

#### **Recommend 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](http://www.hp.com/services/bladessystemservices)

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To learn more, visit [www.hp.com/servers/bl465c](http://www.hp.com/servers/bl465c)

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