



## HP ProLiant BL460c G7 Server Blade

Data sheet

**The HP ProLiant BL460c G7 Server Blade provides excellent performance, industry-leading management tools, and simplified network integration.**

There's no doubt why the HP ProLiant BL460c G7 Server Blade is the world's most popular blade.<sup>1</sup> It offers the ideal balance of performance, scalability, and expandability, raising the bar for data center computing. By packing two processors, two hard drives, up to 384 GB of memory, and a dual-port FlexFabric adapter into a half-height blade, the ProLiant BL460c G7 Server Blade gives IT managers a single platform that can help handle various business applications.

The ProLiant BL460c G7 Server Blade is designed to run and help enhance mainstream business applications in enterprise data centers. Building on the features of its previous generation, the ProLiant BL460c G7 Server Blade now supports the latest four- and

six-core Intel® Xeon® processor 5600 series. It embeds a dual-port 10 Gb FlexFabric adapter for simplified network integration. The server also supports up to 384 GB of memory and provides the ability to use all 12 DIMM slots without reducing memory speed.<sup>2</sup> The ProLiant BL460c G7 Server Blade includes Integrated Lights-Out 3 (iLO 3) remote management, which offers increased performance, a streamlined interface, and enhanced standards support over the prior generation of embedded management.

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<sup>1</sup> IDC Worldwide Server Tracker, Q110, by unit volume

<sup>2</sup> When using the correct combination of processors and PC3-10600 DIMMs, the ProLiant BL460c G7 Server Blade supports running up to 12 DIMMs at 1333 MHz

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### **Transform your server management**

HP Insight Control software is essential server management software that unlocks the management capabilities built into your HP ProLiant servers. Insight Control delivers powerful capabilities that enable you to proactively manage ProLiant server health.

The iLO 3 management processor brings a new level of remote management performance, user experience, and standards support to ProLiant customers. HP iLO Advanced for BladeSystem enables additional remote features, including the ability to cap server power and automatically capture video footage of server events like the last boot and last fault, and allows for global team collaboration for multiple users.

The next-generation remote management with iLO 3 can get work done faster whether your server is across the hall or across the globe. New features include:

- Turbo-charged performance
- Streamlined interface
- Enhanced standards support

## **Ideal environment**

The HP ProLiant BL460c G7 Server Blade is designed for large enterprise data centers, mainstream/midsized data centers and departments, and small workplaces and branch offices. It delivers power-efficient compute power and expanded memory that is suitable for mainstream business applications in enterprise data centers.

## **Features and benefits**

### **Dense compute power**

The ProLiant BL460c G7 Server Blade helps to reduce the amount of space and power it takes to run your IT infrastructure resulting in significant cost savings. It features:

- Up to two-, four-, or six-core Intel Xeon 5500/5600 series processors
- 12 DIMM slots that support up to 384 GB of DDR3 memory with advanced ECC (error checking and correcting)
- HP Smart Array P410i controller for hardware RAID 0 and 1, with optional cache modules for increased performance
- Up to two small form factor (SFF) SAS, SATA, or SSD drives
- Internal USB and SD card slots that enable simple, flexible hypervisor deployments

### **Integrated HP Virtual Connect FlexFabric support**

HP Virtual Connect can simplify and converge your server edge connections, integrate into any standards-based networking and storage infrastructure, and reduce complexity while cutting costs.

- Increase the bandwidth for network-intensive applications with embedded dual-port 10 Gb FlexFabric adapter
- Simplify management and lower infrastructure costs by converging LAN and SAN traffic over the same flexible connection
- Make up to eight connections to network and storage without adding on mezzanine cards
- Divide and fine-tune network and storage bandwidth to match application requirements

### **Industry-leading infrastructure management**

The ProLiant BL460c G7 Server Blade series comes with excellent management and configuration tools to offer better remote administration, lifecycle management, and resource utilization. With the ProLiant BL460c G7 Server Blade, you can:

- Save time and conserve valuable IT resources by simplifying remote management with iLO 3
- Deploy servers quickly, proactively manage virtual or physical server health, and efficiently regulate power consumption with HP Insight Control
- Rapidly provision, continuously analyze, and confidently enhance your converged server infrastructure with HP Matrix Operating Environment<sup>3</sup>

## **Converged networking**

The HP ProLiant BL460c G7 Server Blade can help you remove silos in your data center and consolidate multiple technologies into pools of interoperable resources to deliver operational flexibility for the future. It comes with HP Virtual Connect FlexFabric technology that improves flexibility, enhances performance, and allows to remove up to 95 percent<sup>4</sup> of equipment.

With its integrated HP NC553i 10Gb 2-port FlexFabric Converged Network Adapter (CNA), the ProLiant BL460c G7 Server Blade supports stateless TCP, TCP Offload Engine (TOE), Fibre Channel over Ethernet (FCoE), and iSCSI protocols. It also helps you connect virtual machines to Ethernet, Fibre Channel, or iSCSI networks with one device, over one wire. By converging your networking with HP FlexFabric, you can also add, move, and recover network connections in minutes versus days.

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<sup>3</sup> Formerly known as HP Insight Dynamics.

<sup>4</sup> Virtual Connect Flex-10 provides up to four times the number of connections (FlexNICs) per server without increasing the number of NICs or managed switches required to connect them.

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## HP ProLiant BL460c G7 Server Blade



| Processor and memory            |  |
|---------------------------------|--|
| Number of processors            | 2  |
| Maximum number of cores         | 6  |
| Processors supported            | Intel Xeon 5600 series processor<br>Intel Xeon 5500 series processor           |
| Low-wattage processor offerings | Yes  |
| Cache                           | 4 MB L3<br>8 MB L3<br>12 MB L3   |
| Memory type                     | PC3-10600 DDR3 RDIMM and UDIMM   |
| Standard memory                 | 6 GB or 12 GB, depending on model  |
| Maximum memory                  | 384 GB   |
| Advanced memory protection      | Advanced ECC<br>Mirrored memory<br>Memory lock step mode<br>Online spare       |
| Memory slots                    | 12 DIMM slots  |
| Storage                         |  |
| Storage type                    | Hot-plug SFF SAS<br>Hot-plug SFF SATA<br>Hot-plug SFF SDD                      |
| Maximum internal storage        | Up to two (2) hot-plug SFF SAS/SATA/SATA SSD HDD                               |
| Maximum internal drive bays     | Two (2) small form factor (SFF) hot-plug drive bays                            |
| Expansion slots                 | 2 slots x 8 PCI Express Mezzanine slots (one Type I, one Type II)              |
| Storage controller              | HP Smart Array P410i/Zero memory   |
| Deployment                      |  |
| Form factor                     | Half-height blade; 16 blades per c7000 Enclosure, 8 blades per c3000 Enclosure |
| Networking                      | HP NC553i FlexFabric 10GbE Network Adapter                                     |
| 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, visit: [http://h18000.www1.hp.com/products/quickspecs/13706\\_div/13706\\_div.pdf](http://h18000.www1.hp.com/products/quickspecs/13706_div/13706_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](http://www.hp.com/go/hpfinancialservices)

## HP Services

HP Technology Services—consultants and support experts to solve your most complex infrastructure problems, boost availability, and avoid downtime, with your HP solution.

### Recommended services

**3-year HP Hardware Support Onsite Call-to-Repair Service:** Provides troubleshooting assistance to return your hardware to operating condition within a specified timeframe from the initial service.

**3-year HP Hardware Support Onsite Call-to-Repair Care Pack:** Provides troubleshooting assistance to return your hardware to operating condition within a specified timeframe from the initial service.

**ProLiant Servers Installation and Startup Service:** Provides installation support to bring your new HP ProLiant server and operating system into operation in a timely and professional manner.

### Related services

**3-year HP Hardware Support Onsite 4-hour Service:** Provides 24x7 hardware maintenance services within 4 hours of the service request being logged.

**3-year HP Software Support 24x7:** Offers comprehensive software services, including access to HP technical resources and software updates for HP and select third-party products.

**3-year HP Proactive 24:** Provides integrated support service combining industry-leading technical assistance and proactive account services to help resolve interoperability issues.

For more information about HP services and support, contact your HP sales representative or HP Authorized Channel Partner, or visit: [www.hp.com/hps](http://www.hp.com/hps)

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Simplify your network integration now with the HP ProLiant BL460c G7 Server Blade and manage any business application; visit: [www.hp.com/servers/bl460c-g7](http://www.hp.com/servers/bl460c-g7)

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