



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.¹ 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 192 GB of memory, and a dual-port FlexFabric adapter into a half-height blade, the BL460c G7 server gives IT managers a single platform that can handle any business application.

The BL460c G7 server is designed to run and enhance mainstream business applications in enterprise data centers. Building on the features of its previous generation, the BL460c G7 server 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 192 GB of memory, and provides the ability to use all 12 DIMM slots without reducing memory speed.² The BL460c G7 server includes the Integrated Lights-Out 3 (iLO 3) for remote management, which has increased performance, a streamlined interface, and enhanced standards support over the prior generation embedded management.

¹ IDC Worldwide Server Tracker, Q110, by unit volume

² When using the correct combination of processors and PC3-10600 DIMMs, the BL460c G7 supports running up to 12 DIMMs at 1333 MHz



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, 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 ProLiant 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 BL460c G7 server 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 (2) two-, four-, or six-core Intel Xeon processor 5500 or 5600 series
- 12 DIMM slots supporting up to 192 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 (2) small form factor (SFF) SAS, SATA, or SSD drives
- Internal USB and SD card slots 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 BL460c G7 server blade series comes with excellent management and configuration tools to offer better remote administration, lifecycle management, and resource utilization. With the 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 Insight Dynamics

Converged networking

The HP ProLiant BL460c G7 server 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 to improve flexibility, performance, and remove up to 95 percent³ of equipment.

Integrated with HP NC553i 10GbE FlexFabric Converged Networking Adapter (CNA), the HP 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 ProLiant server blade G7, you can also add, move, and recover network connections in minutes versus days.

³ 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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Processor and memory	
Number of processors	2
Maximum number of cores	6
Processors supported	Intel Xeon processor 5600 series Intel Xeon processor 5500 series
Low-wattage processor offerings	Yes
Cache	4 MB L3 8 MB L3 12 MB L3
Memory type	PC3-10600 DDR3 RDIMM and UDIMM
Standard memory	12 GB
Maximum memory	192 GB
Advanced memory protection	Advanced ECC, Mirrored memory Memory lock step mode Online spare
Memory slots	12 DIMM slots
Storage	
Storage type	Hot-plug SFF SAS Hot-plug SFF SATA 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 x8 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, please visit: 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

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 selected 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

Simplify your network integration now with the BL460c G7 server blade and manage any business application; visit www.hp.com/servers/bl460c-g7

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4AA3-0658ENW, Created September 2010

