

HP ProLiant BL490c G7 Server Blade

Data sheet

Support more virtual servers per blade, reducing the cost per virtual machine and extending the reach of hypervisor licenses.

To support today's rapidly growing virtualized IT infrastructure, organizations need servers that deliver large memory and network throughput. The HP ProLiant BL490c G7 Server is an ideal server to support the workloads of virtualized enterprise data centers. Known as the virtualization blade, the HP ProLiant BL490c G7 Server Blade is characterized by its memory density in a half-height form factor. It uses quad-core or six-core Intel® Xeon® 5600 processors and 18 DIMM slots to support more virtual servers per blade, reducing the cost per virtual machine and extending the reach of hypervisor licenses. Furthermore, the ProLiant BL490c G7 Server Blade delivers a converged network with up to 24 NICs to

support your sprawling IT landscape. You can divide and fine-tune network and storage bandwidth to match application requirements with two integrated 10 Gb multifunction ports.

While virtualization helps you consolidate your diverse IT resources and reduce silos, it comes at a cost of increased server manageability problems. The ProLiant BL490c G7 Server Blade delivers industry-leading infrastructure management capabilities with HP Integrated Lights-Out 3 (iLO 3), the next generation of HP remote management functionality. iLO 3 brings a new level of remote management performance, user experience, and standards support to ProLiant customers. The net result is the ability to get work done faster, whether your server is across the hall or across the globe. In addition, iLO complements HP Insight Control and Insight Dynamics, helping you unleash the value of the ProLiant platform and deliver high-quality IT services.



Key features and benefits

Offload your data center with large memory and compute density:

- Reduce bottlenecks and enhance application performance with Intel Xeon 5600 series processors, which use Intel Turbo Boost Technology.
- Host more virtual machines, reduce costs, and save energy with up to 384 GB of low-voltage DDR3 memory and 18 DIMM slots.
- Improve storage throughput with two embedded 10 Gb multifunction ports and an integrated SATA controller with firmware-based RAID.
- Benefit from faster access to your system with up to 240 GB of Generation 2 SATA Solid State Drives (SSDs).

Set up an ideal virtualized environment:

- Extend the reach of your hypervisor licenses with more memory per core than any other half-height two-processor server blade in the HP BladeSystem portfolio.
- Simplify management and get more connections from your hardware by dividing the embedded dual-port 10 Gb FlexFabric adapter with iSCSI or Fibre Channel over Ethernet (FCoE)¹ into eight connections.
- Make hypervisor deployments simple and flexible with internal USB and SD card slots.

Take control of your infrastructure manageability problems:

- Save time and conserve valuable IT resources by simplifying remote management with HP iLO 3, which comes with 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 allow global team collaboration for multiple users.
- Deploy servers quickly, proactively manage virtual or physical server health, and provision power consumption with HP Insight Control.
- Create virtual servers that automatically grow and shrink based on business priorities, and continually analyze and confidently improve your converged server infrastructure with the HP Matrix Operating Environment.

¹ FCoE capability requires the use of an HP Virtual Connect FlexFabric 10 Gb/24-port Module. Learn more at: www.hp.com/go/virtualconnect



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Processor and memory	
Processor type	Intel Xeon Processor 5600 Series
Number of processors	Up to two
Maximum number of cores	Four or six
Available processors	<p>Six-core Intel Xeon processors</p> <p>Model X5675: 3.06 GHz, 12 MB L3 cache, 95 W</p> <p>Model X5670: 2.93 GHz, 12 MB L3 cache, 95 W</p> <p>Model X5650: 2.66 GHz, 12 MB L3 cache, 95 W</p> <p>Model E5649: 2.53 GHz, 12 MB L3 cache, 80 W</p> <p>Model L5640: 2.26 GHz, 12 MB L3 cache, 60 W</p> <p>Quad-core Intel Xeon processors</p> <p>Model X5672: 3.20 GHz, 12 MB L3 cache, 95 W</p> <p>Model L5630: 2.13 GHz, 12 MB L3 cache, 40 W</p>
Maximum processor speed	3.20 GHz
Processor cache	12 MB L3
Memory type	PC3-10600 DDR3 RDIMMs and UDIMMs
Maximum memory	384 GB
Standard memory	<ul style="list-style-type: none"> 12 GB (3 x 4 GB) PC3-10600 (DDR3-1333) registered DIMMs 6 GB (3 x 2 GB) PC3-10600 (DDR3-1333) registered DIMMs
(Available in three BTO SKUs)	<ul style="list-style-type: none"> 12 GB (3 x 4 GB) PC3L-10600 (DDR3-1333) low voltage registered
Advanced memory protection	<p>Advanced ECC</p> <p>Mirrored Memory</p> <p>Memory Lock Step Mode</p> <p>Online Spare</p>
Memory slots	18 DIMM slots
Storage	
Storage type	Non-hot plug SATA SSD
Maximum internal storage	240 GB
Maximum internal drive bays	Two internal non-hot plug SATA SSD
Expansion slots	Two I/O expansion mezzanine slots. Choices: 1 Gb, 10 Gb, and Flex-10/FlexFabric FCoE capable 10 Gb Ethernet adapters, iSCSI adapters, 4 Gb and 8 Gb Fibre Channel adapters, and 4 x QDR (40 Gb/s) InfiniBand adapters
Storage controller	HP Embedded SATA RAID Controller
Deployment	
Form factor	Half-height
Networking	One Dual Port 10 GbE NC553i FlexFabric network controller
Remote management	HP Integrated Lights-Out 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/13711_div/13711_div.pdf

HP Factory Express

HP Factory Express provides customization and deployment services along with your storage and server purchases. You can customize hardware to your exact specifications in the factory—helping to speed deployment. www.hp.com/go/factoryexpress

Customer technical training

We offer a variety of training courses on storage software, networking, archiving, and disk storage systems. Our classes are available in many delivery modalities—from traditional instructor-led courses at one of our 80 training centers worldwide to online and/or onsite training. www.hp.com/learn/storage

HP Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help you acquire, manage, and ultimately retire your HP solutions. www.hp.com/go/hpfinancialservices

HP Services

HP Technology Services—consultants and support experts to solve your most complex infrastructure problems. We help keep your business running, no matter what. Boost availability and avoid downtime; trust our expertise to enhance your HP solution.

Recommended services

3-Year HP Hardware Support Onsite Call-to-Repair Service, 6- or 24-hour

Provides expert troubleshooting services to help return the hardware to operating condition within 6 or 24 hours of the initial service request to the HP Global Solution Center.

3-Year HP Hardware Support Onsite Service, 4-hour response, 24x7

Provides you with rapid remote support and, if required, an HP authorized representative who arrives on site any time and day of the year to begin hardware maintenance service within four hours of the service request being logged.

HP ProLiant Server Hardware Installation

Provides basic hardware installation of HP branded servers, storage devices, and networking options to assist you in bringing new hardware into operation in a timely and professional manner.

Related services

3-Year HP Proactive 24

Provides improved stability, availability, and operational effectiveness with an integrated hardware and software support service that combines industry-leading reactive technical assistance with proactive account services, giving your IT manager support from a team of service specialists.

3-Year HP Support Plus 24

For a higher return on your server and storage technology, our three-year combined reactive support service delivers integrated onsite hardware/software support services available 24x7x365, including access to HP technical resources, four-hour response onsite hardware support, and software updates.

Trust the Services professionals at HP; for more information, visit: <http://www.hp.com/hps>

To learn more about how to set up an ideal virtualized IT infrastructure, visit: www.hp.com/servers/bl490c-g7

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