



HP ProLiant BL680c G5 Server Blade - Overview and Features

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Overview

The all new HP ProLiant BL680c Server Blade, delivers no-compromise performance and expansion in the first Quad-Core 4P BladeSystem Server. With up to four Intel Xeon 7300 Sequence processors, 64 GB of Fully Buffered memory, two hot-plug Serial Attached SCSI (SAS) or Serial ATA (SATA) hard drives, four embedded Gigabit NIC's and three I/O expansion slots, the HP ProLiant BL680c G5 delivers the density you want with the performance you need to handle the most demanding enterprise class applications.

Features

- Up to four Intel Xeon 7300 sequence processors - delivering 64-bit quad-core computing, with industry-leading performance-per-watt and price/performance-per-watt; Up to 64GB Fully Buffered DDR2 Memory - large footprint for memory-intensive applications. 16 PC2-5300 DIMM slots are available for expansion; High performance HP Smart Array P400i with 256MB cache for hardware RAID 0,1; Four embedded Gigabit Ethernet NICs - Two are Multifunction Gigabit NICs with TCP/IP Offload Engine (TOE) and RDMA/iSCSI; Three mezzanine expansion slots allow for configuration options, such as Multifunction Gigabit NICs, standard Gigabit NICs, 4Gb Fibre Channel and Infiniband; SAS 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.
- Delivers the ProLiant experience you expect - using the same drives, memory and RAID controllers as traditional ProLiant servers, plus the additional benefits of HP BladeSystem; Choose between up to two Small Form Factor (SFF) hot-plug SAS or SATA drives for maximum availability; Advanced ECC memory protection; HP Smart Array P400i controller and optional battery-backed write cache option provide fault tolerance to limit costly network downtime.
- 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. With new Virtual KVM performance, iLO 2 Standard Blade Edition now provides all of the capabilities required for administrative or maintenance tasks from a single remote console. iLO 2 Standard Blade Edition provides true in-front-of-the-server control of systems located in datacenters or remote locations from the office, home or travel location. This eliminates unnecessary travel and increases IT efficiency and responsiveness. Now IT customers have a single remote management and control solution.
- Ideal for: Large Enterprise data centers, Mainstream/mid-sized data centers and departments, branch offices, High Performance Computing (HPC).

[ProLiant BL c-Class](#)

HP ProLiant BL680c G5 Server Blade - specifications



Processor, Operating System and Memory

Processor	Quad-Core Intel® Xeon® Processor E7340 (2.40/2x4M 80W QC 2P Kit); Quad-Core Intel® Xeon® Processor E7330 (2.40/2x3M 80W QC 2P Kit); Quad-Core Intel® Xeon® Processor E7320 (2.13/2x2M 80W QC 2P Kit); Quad-Core Intel® Xeon® Processor E7310 (1.60/2X2M 80W QC 2P Kit); Quad-Core Intel® Xeon® Processor L7345 (1.86 GHz/2x4M 50W QC 2P kit) Low Voltage); Dual-Core Intel® Xeon® Processor E7220 (2.93 GHz/2x4M 80W DC 2P kit)
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Multiple processor	Not applicable
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Cache	2 x 4 MB Level 2 cache memory; 2 x 3 MB Level 2 cache memory; 2 x 2 MB Level 2 cache memory
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Chipset	Intel® 7300 Chipset
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Memory Type	PC2-5300 Fully Buffered DIMMs running at 667 MHz
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Memory slots	16 DIMM slots
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Memory, Maximum description	64 GB
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Internal drives

Hard disk drive	No hard disk drive in standard configuration
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Hard disk speed	Not applicable
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Internal mass storage	Hot Plug Serial Attach SCSI (SAS): 292 GB SAS (2 x 146 GB Serial SCSI)
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Internal drive bays	2 Small Form Factor SAS/ SATA drive bays
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CD-ROM/DVD	None
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System features

Chassis description	Up to 8 full-height blades supported in the HP BladeSystem c7000 Enclosure
Network interface	Four (4) embedded NIC ports, plus (1) additional management NIC port: One (1) embedded NC326i Dual Port Gigabit Server Adapter; Two (2) embedded NC373i Multifunction Gigabit Server Adapters with TCP/IP Offload Engine for Microsoft Windows; One (1) additional embedded 10/100 NIC dedicated to iLO 2 management
Expansion Slot	Three Mezzanine slots (Two x8 and one x4)
Compatible Operating Systems	Microsoft® Windows® 2000 Server; Microsoft® Windows® 2000 Advanced Server; Microsoft® Windows® Server 2003, Standard Edition; Microsoft® Windows® Server 2003 R2, Standard Edition; Microsoft® Windows® Server 2003, Standard x64 Edition; Microsoft® Windows® Server 2003 R2, Standard x64 Edition; Microsoft® Windows® Server 2003, Web Edition; Microsoft® Windows® Server 2003 R2, Web Edition; Microsoft® Windows® Server 2003, Enterprise Edition; Microsoft® Windows® Server 2003 R2, Enterprise Edition; Microsoft® Windows® Server 2003, Enterprise x64 Edition; Microsoft® Windows® Server 2003 R2, Enterprise x64 Edition; Red Hat Enterprise Linux; SUSE Linux Enterprise Server
PC Management	Integrated Lights-Out 2 (iLO 2) Standard Blade Edition (integrated on motherboard): Virtual KVM based remote console; Virtual media (single server, browser based access only); Remote Serial Console; Virtual Power Button Control; Virtual Unit ID control; Integrated Remote Console (ActiveX Control client); Dedicated network connectivity; OS independent hardware health status Present server power consumption; Browser, command line and scripted access; Automatic IP Configuration via DHCP/DNS/WINS; Industry Standard 128-bit Secure Sockets Layer (SSL) and Secure Shell security (SSH); Advanced Encryption Standard (AES)/Triple Data Encryption Standard (3DES); IML and iLO Event Logging; Support for 12 user accounts with customizable access privilege; Single sign-on from HP BladeSystem Onboard Administrator
Security Management	One (1) internal USB 2.0 connector for security key devices and USB drive keys Power-on password; Administrator's password; Integrated Lights-Out 2 has 12 customizable user accounts and SSL encryption; Integrated Lights-Out 2 can be disabled via a Global Setting
Service & Support Features	This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Additional support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HP Care Pack services or customized service agreements.
Warranty	3 year Parts, 3 year Labor, 3-year on-site support