



HP ProLiant BL2x220c G7 Server Blade

Data sheet

The HP ProLiant BL2x220c G7 Server Blade, a breakthrough fabric and density server, now comes with an embedded Mellanox QDR Infiniband solution. This gives you a focused Infiniband networking environment to reduce cost and simplify network management.

The HP ProLiant BL2x220c G7 Server Blade is the latest addition to the HP BladeSystem portfolio. Placed among one of the first two-in-one server blades in the industry, the BL2x220c G7's dense form factor helps scale-out and cluster computing environments utilize their infrastructure resources efficiently. Aided by Intel®Xeon® 5600 series processors, DDR3 memory, and other enhancements, the BL2x220c G7 reduces energy expenditures and significantly improves performance.

BL2x220c offers a high-performing and flexible interconnect solution for HPC and scale-out data centers, as a leading enhancement.

The ConnectX-2 adapter can automatically identify and operate in QDR Infiniband, 10 Gb Ethernet (Flex-10), or 1 Gb Ethernet mode. This gives you enhanced performance and efficiency for HPC with 20X better bandwidth with integrated Infiniband in an ultra-dense blade form factor.

To help you save time and money, Insight Control facilitates easy and efficient management with rapid and reliable server deployment, proactive health monitoring, remote management, and enhanced power management. HP Insight Dynamics allows you to instantly adjust to dynamic business demands—provision and modify a complex infrastructure in minutes.



Key features and benefits

Move to efficient networking

With HP ProLiant BL2x220c G7 Server Blade you get flexible high performance networking:

- One embedded single-port Mellanox QDR Infiniband/Flex-10 network adapter per node dramatically reduces the cost of Infiniband networking in the datacenter.
- NC543i network controller supports Virtual Connect Flex-10, a unique technology from HP, as well as QDR Infiniband. Networking enhancements include auto-sense capability to identify the personality (Infiniband or Ethernet) the server needs to take on.
- Although all data and management traffic is passed through a single mid-plane connector that is located on one of the server nodes, each server node operates independently of the other, having its own operating system and workload.

Boost your data center performance

Integrated features improve performance of your infrastructure:

- Ability to support two 95W, 80W, 60W, or 40W Intel Xeon 5600 Series processors per server node—the latest high-performance Intel processors.
- Improved performance per watt for memory-intensive applications with support of up to 96 GB of power-efficient DDR3 registered or unbuffered DIMMs (dual in-line memory modules).
- Equipped with an integrated dual-port 1 Gb Ethernet server adapter, helping fine-tune networking and reduce network costs.

Achieve enhanced energy efficiency

Energy efficiency is better with:

- Reduced power consumption without performance loss with the built-in HP Power Regulator that provides an innovative operating system-independent power management feature and system performance.
- Reclamation of trapped power in the data center by safely limiting server power consumption with Insight Control and Dynamic Power Capping technology.

HP Services

When technology works, business works.

The challenge of virtually every technology organization is similar: to develop and maintain an agile, efficient server infrastructure that delivers the service levels your business needs.

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

Three-year HP Hardware Support Onsite Service, four-hour response, 24x7—provides an IT manager with a team of support specialists who will quickly begin troubleshooting the system to help return the hardware to operating condition within six or 24 hours of the initial service request to the HP Global Solution Center.

HP ProLiant Server hardware installation:

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

Related services

Three-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 manage support from a team of service specialists.

Three-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, contact your HP sales representative or HP-authorized Channel Partner or, visit

<http://www.hp.com/hps>

Technical specifications



HP ProLiant BL 2X220C G7 Server Blade

Processor and memory	
Processor type	Intel® Xeon® 5600 series
Processors	X5670 X5660 X5650 E5640 E5620 L5640 L5630
Processor core	6 or 4
Processor capacity	2 per node, 4 per server
Maximum processor speed	2.93 GHz
Processors per 42U enclosure	256
Memory type	PC3-10600 DDR3 RDIMMs and UDIMMs
Standard memory	24 GB per node
Maximum memory	96 GB per node
Storage	
Storage type	Non-hot plug SATA or SSD
Hard drives supported	SATA: 250GB or 120GB SSD: 64GB or 32GB
Expansion slot	None
Deployment	
Form factor chassis	Half-height Blade
Networking	Embedded NC543i and NC362i network controllers
Redundant power supply	Enclosure-based power
Warranty—year(s) (parts/labor/onsite)	3/0/0
Management	Integrated Lights Out 3

Manage better, control better

The new Server Blade equips you with better management tools and features:

- HP Insight software lets you build infrastructure management capabilities as you need them.
- HP Integrated Lights-Out 3 (iLO 3) enables you to save time and conserve valuable IT resources by simplifying remote management. iLO 3 simplifies server setup, health monitoring, power and thermal control, and lights-out remote administration of ProLiant ML, DL, and BL servers.
- HP Insight Control allows you to deploy servers rapidly, proactively monitor system health and performance, help optimize power consumption, and remotely control your entire server environment from anywhere.
- HP Insight Dynamics suite for ProLiant servers delivers comprehensive functions for enhancing and balancing resources and workloads in real time.

Ideal environments

The BL2x220c G7 is ideal for high-performance computing, grid, and scale-out environments where jobs are distributed across a large number of nodes.

HP Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire and manage your HP solutions.

For more information about these services, visit

www.hp.com/go/hpfinancialservices

To discover how the HP ProLiant BL2x220c G7 Server Blade can help achieve efficiency and simplify network management for you, check out: www.hp.com/servers/bl2x220c

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