HP ProLiant BL685c G7 Server Blade

Get a competitive edge with four-processor computing capability

You need your server to deliver an ideal combination of performance, networking capability, and memory capacity for compute-intensive workloads. Also, it must deliver value for your money. The HP ProLiant BL685c G7 Server Blade does just that.

The HP ProLiant BL685c G7 Server Blade features the latest AMD Opteron 6300 series processors, integrated HP Virtual Connect FlexFabric architecture, and HP Integrated Lights-Out 3 (iLO 3) remote management, helping to simplify network connections and lower infrastructure costs. All these benefits are ideal for your virtualization and compute-intensive database workloads. Incorporating superior technologies, this enhanced server blade comes with an HP Smart Array Controller, support for hot-plug drives, 32 DIMM sockets, and Virtual Connect FlexFabric networking.

All-new features at a great price

• Improve performance of your compute-intensive applications

The HP ProLiant BL685c G7 Server Blade provides outstanding compute power and superior performance with up to four multi-core AMD Opteron 6300 series processors. With the latest power-efficient technologies such as AMD CoolCore, PowerNow!, and CoolSpeed technologies, the ProLiant BL685c G7 Server Blade delivers the processing power you need to drive virtualization and compute-intensive database applications.

• Buy less and connect more

The ProLiant BL685c G7 Server Blade comes with embedded HP FlexFabric 10 Gb Converged Network Adapters to help reduce infrastructure cost and save overall power consumption by converging LAN and SAN connections at the server level.

• Unleash the power of remote management

HP iLO 3 server management software delivers remote console performance almost 8x faster than iLO 2. It sends alerts from iLO 3 regardless of the state of the host server and helps you access advanced troubleshooting features. Control your data center remotely—reducing travel time and server management expense.

Key features and benefits

Uncompromising scalability

With the latest 16-core, 12-core, 8-core, and 4-core AMD Opteron processors, you can defy the barriers of server consolidation and get enhanced compute power for your compute-intensive database applications.

- Up to four 16-core, 12-core, 8-core, or 4-core AMD Opteron processors deliver outstanding compute power.

- Up to 1 TB of DDR3 Registered DIMM memory with advanced error checking and correcting (ECC) provides a large memory footprint for demanding applications.

- High-performance HP Smart Array P410i controller with 1 GB flash-backed write cache (FBWC) module is ideal for RAID levels 0 and 1.

- Up to two hot-plug small form factor (SFF) serial attached SCSI (SAS), serial ATA (SATA), or solid state drive (SSD) drives provide versatile configuration and deployment options.

- Internal USB and microSD card slots enable simple and flexible hypervisor deployments.

Improved networking technology

With two embedded HP NC551i Dual-Port FlexFabric 10 Gb Converged Network Adapters, the ProLiant BL685c G7 Server Blade delivers improved performance and cost savings of converged network connectivity. It helps:

- Sustain sufficient bandwidth for network-intensive applications

- Enhance network and storage traffic with hardware acceleration and stateless TCP/IP offload, TCP Offload Engine (TOE), Fibre Channel over Ethernet (FCoE), and iSCSI protocols

- Reduce infrastructure costs and simplify management by converging LAN and SAN traffic over the same flexible 10 Gb Ethernet connection

- Provide (up to) 16 connections to network and storage without the need for add-in mezzanine cards

- Divide and fine-tune network and storage bandwidth to match application requirements

Industry-leading infrastructure management

Hassle-free infrastructure management: HP provides management solutions that are designed to simplify your server's installation, configuration, and maintenance throughout the entire server lifecycle to give you higher levels of operational efficiency and highly reliable systems.

- Enable intelligent and flexible firmware and software deployment through the included HP Insight Foundation Suite that combines HP SmartStart, HP Systems Insight Manager, and HP Insight Remote Support Standard

- Save time and conserve valuable IT resources by simplifying remote management with the integrated HP iLO 3

- Deploy servers quickly, manage virtual or physical server health proactively, and regulate power consumption efficiently with the optional HP Insight Control

HP Insight Control is an essential server management software that helps deploy servers quickly, proactively manage the health of virtual or physical servers, control servers remotely, and streamline power consumption. Insight Control helps you manage HP servers running Microsoft® Windows®, Citrix XenServer, Linux, and VMware environments. You can integrate Insight Control with leading third-party enterprise management consoles, such as Microsoft System Center and VMware vCenter.

The iLO 3 subsystem is a standard component of the ProLiant BL685c G7 Server Blade that facilitates remote server manageability. It includes an intelligent microprocessor, secure memory, and a dedicated network interface. This design makes iLO 3 independent of the host server and its operating system. In addition to providing world-class remote management functionality, iLO 3 is also responsible for managing the health of your server.

For more information about HP Insight Control software for ProLiant servers, visit hp.com/go/insightcontrol.

Why choose the HP ProLiant BL685c G7 Server Blade?

Your business environment and its growing needs determine your server choice. It is recommended that you consider what you would need in order to:

• Increase the performance of your compute-intensive database workloads

• Realize your virtualization roadmap

• Enable efficient remote manageability

• Get the right price to performance ratio

The ProLiant BL685c G7 Server Blade can help you achieve all of these goals at a great price—making it the right choice for organizations looking to get value for their money.

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Technical specifications

Processor and memory

Number of processors	2 or 4
Maximum number of cores	Up to 64
Processors supported	AMD Opteron 6300 Series
Low wattage processor offerings	Yes
Cache	16 MB L3 cache
Memory type	DDR3 RDIMM
Standard memory	64 GB
Maximum memory	1 TB
Advanced memory protection	Advanced ECC
Memory slots	32 DIMMs

Storage

Storage type	Hot-plug SFF SAS
	Hot-plug SFF SATA
	Hot-plug SFF SSD
Maximum internal storage	2.4 TB
Maximum internal drive bays	2
Expansion slots	3 PCIe 2.0 x 8 (mezzanine)
Storage controller	Smart Array P410i Controller with 1 GB FBWC

Deployment

Form factor	Full-height blade
Rack height	8 server blades in a 10U enclosure or 4 server blades in a 6U enclosure
Networking	2 HP NC551i Dual-Port FlexFabric 10 Gb Network Adapters Ethernet/iSCSI/Flex-10/FCoE
Remote management	HP Integrated iLO 3
Redundant power supply	Enclosure-based power
Warranty	3-year parts/3-year labor/3-year onsite

For additional technical specifications, visit: h18000.www1.hp.com/products/quickspecs/13655_div/13655_div.pdf.

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment. hp.com/go/hpfinancialservices

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 speed deployment. hp.com/go/factoryexpress

Gain the skills you need with HP ExpertOne training and certification from HP. With HP ProLiant training, you can accelerate your technology transition, improve operational performance, and get the highest return on your HP investment. Our training is available when and where you need it, through flexible delivery options and a global training capability. hp.com/learn/proliant

To connect with other blade customers, partners, and experts, visit the HP Blade Connect online community: hp.com/go/bladeconnect.

HP Services

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

HP Technology Services offers a comprehensive portfolio of HP Care Pack services to help design, deploy, manage, and support your IT environment, with easy-to-buy, easy-to-use support packages.

Minimum recommended HP Care Pack offerings
• Installation and startup for HP BladeSystem infrastructure

• 3-year, 6-hour, or 3-year, 24-hour call to repair

Related service-level HP Care Pack offerings
• 24x7 same business day

• Onsite 4-hour response coverage

• HP Support Plus 24—integrated 24x7 hardware and software support

• HP Proactive Select—access to outstanding HP technical consultants, service credits, and expertise when needed

Benefit from HP Care Pack services, helping you:
• Reduce deployment time and manage server blade solutions smoothly and efficiently

• Increase server uptime, performance, and availability to your business

• Detect, diagnose, and repair problems quickly, saving time, money, and resources

Learn more at
hp.com/go/proliant/carepack
hp.com/servers/bl685c

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