

HP ProLiant BL465c Gen8 Server



Intuitive technology, intuitive data centers.

Unique blend of core density and a broad memory footprint in a half-height form factor—delivering price and performance leadership for virtualized and high-performance computing environments.



Can server intelligence go beyond just a possibility?

The data center, as we knew it, has evolved. IT organizations today grapple with data explosion while facing constant pressure to be more efficient, cost-effective, and productive. Add to this the stress of IT sprawl, network bottlenecks, and the possibility of downtime that could lead to increased expenses in more ways than one, and you have one very complex IT situation at hand.

Data center management is much simpler when you have a conducive environment that intuitively knows how to make intelligent choices—one that allows you to focus more on your business and less on resolving IT problems, one that is designed to anticipate your evolving needs, and one that assists you in eliminating common issues that result in downtime. The ProLiant BL465c Gen8 Server, designed for midmarket and enterprise IT environments, can help you do all of this and more.

The ProLiant BL465c Gen8 Server supports the HP Integrated Lights-Out (iLO) Management Engine, with a complete set of embedded management features throughout the lifecycle of the server—from initial deployment, through ongoing management, including service alerting and remote support. HP iLO includes HP Intelligent Provisioning, HP Agentless Management, HP Active Health System, and HP Insight Remote Support.

An intelligent server environment can meet the needs of your growing business, while enhancing the performance of your applications and improving the computing power of your business.



The ProLiant BL465c Gen8 Server supports:

- HP SmartMemory, with built-in intelligence that improves performance while reducing downtime and energy costs, which offers:
 - 25 percent higher bandwidth with up to 20 percent less power without impacting performance¹
 - Advanced memory-error detection to reduce unplanned downtime
 - Future enhanced support through HP Active Health System
- The HP Smart Array P220i Controller that provides:
 - Integrated 6G SAS controller with RAID 0 and 1
 - 512 MB flash-backed write cache (FBWC)
 - Performance improvement over the G7 Smart Array P410i Controller
- The HP SmartDrive hot-plug drive carrier that enables:
 - Improved drive-status indication with intuitive icon-based display
 - Reduced data loss and improved serviceability with the “do not remove LED” feature
- HP I/O mezzanine expansion slots that deliver:
 - Increased bandwidth with up to 200 percent bandwidth per slot²
 - Future-proof technology for today and tomorrow
- The iLO management engine, with core lifecycle management functions for instant availability, that offers:
 - HP Intelligent Provisioning for “ready to deploy and update” convenience without the need for HP discs or downloads
 - HP Agentless Management for base hardware health monitoring and alerting without OS agents
 - HP Active Health System for continuously running diagnostics to lower downtime
 - HP Insight Remote Support for rapid phone-home support setup and configuration

¹“HP Proprietary Software Test,” HP, September 2011.

²HP lab testing, 2012.

Key features and benefits

Features	Benefits
FlexibleLOM options	Offering a flexible, cost-efficient, future-proof choice of network adapters
HP SmartStorage solution	Up to 3X more performance ² through new SmartDrives and Smart Array controllers
Next-generation iLO Management Engine and cloud-enabled Insight Management	Fourth generation of iLO manageability
HP Active Health	Proactive diagnostics, enabling faster diagnosis of root cause

Redefine your server experience

- Anticipate server needs with user-inspired features, such as HP SmartDrive that addresses common issues resulting in downtime
- Utilize embedded provisioning tools, Active Health monitoring, and other system maintenance capabilities built using the industry-leading iLO management engine.
- Enable smarter data protection with dynamic workload acceleration for ever-increasing drive capacities, real-time workload-aware analysis to enhance and adapt to storage performance, and 6X faster solid-state performance vs. the previous generation²
- Improve visibility and control over the energy efficiency of your data center with automated energy optimization
- Identify server location and inventory through Insight Control for enhanced workload efficiency across your entire data center

²HP lab testing, 2012.

Do away with tedious, time-consuming tasks

- HP Intelligent Provisioning is a single, embedded tool for all server set-up and configuration tasks. All of the firmware, drivers, and tools that you need to quickly get your systems online is built into Gen8 servers—no more CDs or DVDs needed.
- HP Active Health provides 24x7 continuous agentless health monitoring and alerting and 100 percent configuration change logging. Start problem analysis faster using unified diagnostic tools with secure data transfer to HP Service and Support.
- Smart Update is a breakthrough system maintenance tool with one-click simplicity that systematically updates firmware and system software across servers and blade infrastructures at the scale of your data center.

Improve application, storage, and I/O performance

- Delivers superior performance, quality, and manageability advantages with HP SmartMemory; Supports RDIMM and LRDIMM with up to 512 GB capacity
- Enables quick visibility to issues or blades that need to be located and serviced with the health status LED on the server blade and the location LED on HP SmartDrives
- Supports HP SmartStorage and HP SmartDrives with HP Smart Array P220i RAID Controller with 512 MB FBWC; provides choice of two 2.5-inch small form factor (SFF), serial attached SCSI (SAS), serial ATA (SATA), solid-state drives (SSD).
- Enhances I/O bandwidth improvements of up to 200 percent in comparison to ProLiant BL465c G7 Server,² with the server's 1x8 and 1x16 PCIe 2.0 I/O expansion slots supporting high-performing mezzanine option cards
- Provides the ability to customize server networking today with the ability to meet future needs without overhauling server hardware with HP FlexibleLOM
- Provides choice of bandwidth and fabric (Ethernet, FCoE, and InfiniBand), supports Wake on LAN, and provides a shared iLO port for ease of use

² HP lab testing, 2012.

Technical specifications

Processor	<p>16-core processors AMD Opteron 6380 (2.5 GHz/16-core/16 MB/115 W) processor AMD Opteron 6378 (2.4 GHz/16-core/16 MB/115 W) processor AMD Opteron 6376 (2.3 GHz/16-core/16 MB/115 W) processor Low-power AMD Opteron 6366HE (1.8 GHz/16-core/16 MB/85 W) processor</p> <p>12-core processors AMD Opteron 6348 (2.8 GHz/12-core/16 MB/115 W) processor AMD Opteron 6344 (2.6 GHz/12-core/16 MB/115 W) processor</p> <p>8-core processors AMD Opteron 6328 (3.2 GHz/8-core/16 MB/115 W) processor AMD Opteron 6320 (2.8 GHz/8-core/16 MB/115 W) processor</p> <p>4-core processors AMD Opteron 6308 (3.5 GHz/4-core/16 MB/115 W) processor</p>
Cache memory	16 MB level-three cache memory
Chipset	AMD SR5690 and SP5100
Upgradeability	Upgradeable to (2) processors
On-system management	HP iLO 4
Memory protection	Advanced ECC Online spare mode
Memory type	HP SmartMemory DDR3 load reduced (LRDIMM) or registered (RDIMM)
Expansion slots	(2) I/O expansion mezzanine slots
Storage controller	(1) HP Smart Array P220i Controller with 512 MB FBWC, (RAID 0 and 1)
Maximum internal storage	Hot-plug SFF SAS 2.4 TB 2 x 1.2 TB Hot-plug SFF SATA 2.0 TB 2 x 1.0 TB Hot-plug SFF SAS SSD 1.6 TB 2 x 800 GB Hot-plug SFF SATA SSD 1.6 TB 2 x 800 GB
Graphics	Integrated Matrox G200 video standard
Form factor	ProLiant BL465c Gen8 Server is a half-height server blade that plugs into the HP BladeSystem c3000 and c7000 enclosures
Warranty	This product is covered by a global limited warranty and supported by HP Technology Services and a worldwide network of HP authorized channel partners. Hardware diagnostic support and repair is available for three years from the date of purchase. Support for software and initial setup is available for 90 days from the date of purchase. For more information, visit: h18004.www1.hp.com/products/servers/platforms/warranty/index.html
QuickSpecs URLs	h18000.www1.hp.com/products/quickspecs/14325_div/14325_div.html

Services and support

HP Technology Services offers a set of consultancy, deployment, and support solutions designed to meet the lifecycle needs of your IT environment.

HP Care Pack Services for industry-standard servers includes support for qualified options at no additional cost.

HP Foundation Care Services delivers scalable support packages for HP industry-standard servers and software. You can choose the type and level of service that is most suitable for your business needs. New to this portfolio is **HP Collaborative Support**, which offers a single point of contact for server problem diagnosis, hardware problem resolution, basic software problem diagnosis, fault isolation, and resolution if available to HP. In case the issue cannot be resolved by applying known fixes, HP contacts the third-party vendor and creates a problem incident on your behalf.

If you are running business-critical environments, you can choose **HP Proactive Care or Critical Advantage**. These services help you deliver high levels of application availability through proactive service management.

All service options include HP Insight Remote Support for secure remote monitoring, diagnosis, and problem resolution. You can also leverage our Support Center to access the information, tools, and expertise required to support your HP business products.

For more information, visit: hp.com/services/proliant or hp.com/services/bladessystem.

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

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

Customer Technical Training

Gain the skills you need with ExpertOne training and certification from HP. With HP ProLiant, training, you will accelerate your technology transition, improve operational performance, and get the best 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

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4AA4-1497ENW, November 2013, Rev. 2

