# **HP ProLiant BL460c Gen9 Server Blade**



The world's leading server blade with advanced compute performance



## **Enterprise-class compute for your converged** data center

Designed for a wide range of configuration and deployment options, the HP ProLiant BL460c Gen9 Server Blade provides the flexibility to enhance your core IT applications with right-sized storage for the right workload—resulting in lower total cost of ownership (TCO). This performance workhorse adapts to any demanding blades environment, including virtualization, IT and Web infrastructure, collaborative systems, cloud, and high-performance computing. HP OneView, the converged management platform, accelerates IT service delivery through a software-defined approach to manage it all.

#### More performance

The HP ProLiant BL460c Gen9 Server Blade delivers up to a 70 percent performance increase with the new Intel® Xeon® E5-2600 v3 processors¹ and the enhanced HP DDR4 SmartMemory at speeds up to 2,133 MHz.

#### More flexibility

New flexible internal storage controller options strike the right balance between performance and price, helping to lower overall TCO.

#### More storage options

With the BL460c Gen9 Server Blade, you have standard internal USB 3.0, as well as future support for redundant microSD and optional M.2 support for a variety of system boot alternatives.

#### The Power of One

HP BladeSystem with HP OneView delivers the Power of One—one infrastructure. one management platform. Only the Power of One provides leading infrastructure convergence, the security of federation, and agility through data center automation to transform business economics by accelerating service delivery up to 66X faster while reducing data center costs up to 68 percent.<sup>2</sup> As a single software-defined platform, HP OneView transforms how you manage your infrastructure across servers, storage, and networking in both physical and virtual environments. HP's unique automation simplicity shifts the focus from "how devices run" to "how people work," streamlining your IT operations and improving business agility.

## HP ProLiant BL460c Gen9 Server Blade brings you:

- · The right compute
- · The right workload
- The right economics every time

<sup>&</sup>lt;sup>1</sup> Intel<sup>®</sup> Performance Benchmark Library

<sup>&</sup>lt;sup>2</sup> IDC white paper, "Business Value of Blade Infrastructures"



## **Key features and benefits**

#### Accelerate IT service delivery with agile infrastructure management

By providing a comprehensive set of management offerings, HP can meet your management needs at every stage of the server lifecycle with three types of solutions:

- On-premise management
- On-system management
- On-cloud management

**On-premise**—HP OneView, our single, software-defined management platform, accelerates IT service delivery through automated configuration and lifecycle management and faster virtual machine provisioning, and it helps accelerate the transition to Infrastructure-as-a-Service (laaS) and hybrid cloud.

**On-system**—On-system management provides embedded tools and scripting tools on all HP servers that increase server administrator productivity and simplify the server management experience. On-system management portfolio includes Unified Extensible Firmware Interface (UEFI), HP Intelligent Provisioning, HP iLO, HP Smart Update Manager (HP SUM), Service Pack for ProLiant (SPP), Scripting Tools (Scripting Toolkit for Linux® and Microsoft® Windows®, HP Scripting Tool for Windows PowerShell, and the HP RESTful Interface Tool).

**On-cloud**—HP Insight Online is a cloud-based infrastructure management and support portal providing fast problem resolution and easy access to the information you need to support your IT environment. You can use the Insight Online dashboard to track device health, service events and support cases, view device configurations, create custom reports, and proactively monitor HP contracts and warranties. You can also use the HP Insight Online dashboard in the HP Support Center Mobile App to stay up to date while on the go.

#### Increase performance

- The BL460c Gen9 Server Blade offers a performance boost with up to two Intel Xeon E5-2600 v3 Series processers per server blade—up to 18 cores.
- The enhanced HP SmartMemory with DDR4 runs at speeds up to 2,133 MHz while operating at two dual inline memory modules (DIMMs) per channel.

#### Boost business performance with new storage, application, and I/O enhancements

- The BL460c Gen9 Server Blade includes an HP Dynamic Smart Array B140i as a standard feature—plus your choice of an HP Smart Host Bus Adapter (HBA) H244br or HP Smart Array P244br/1 GB FBWC for performance or additional features. Both offer support for 12 GB SAS speeds for the two internal drives.
- HP DDR4 SmartMemory technology is available only on ProLiant Gen9 servers, offering unmatched quality, performance, and manageability, when compared to industry-standard memory.
- Enhanced memory performance, along with the benefit of reduced power—16 DIMM slots with 2,133 MHz DDR4 and eight slots per processor socket.
- Two x 16 PCle 3.0 I/O expansion slots can support the highest performing mezzanine option cards now, as well as in the future.
- The FlexibleLOM lets you update technology based on networking demands, helping you
  customize server networking and scale up to future demands without the need to overhaul
  existing server hardware. It offers a choice of bandwidth and fabric (Ethernet, FCoE, and
  InfiniBand), supports wake-on-LAN functionality, and provides a shared HP iLO port for ease
  of use.

The optional HP Virtual Connect FlexFabric-20/40 F8 Module accelerates server virtualization and delivers converged data center services at the speed of business through the industry's first 20 GB server-to-network converged solution.

• The BL460c Gen9 offers support for 16 GB Fibre Channel HBA.

## **Technical specifications**



Compute	Up to two Intel Xeon E5-2600 v3 Series, 4/6/8/10/12/14 /16 /18 cores
Support drives	Two hot-plug drive bays SATA/SAS/SSD
Storage	Standard HP Dynamic Smart Array B140i with choice of HP Smart HBA H244br or HP Smart Array P244br for performance or additional features
Storage FBWC	1 GB DDR3-1,866 MHz, 72-bit wide bus at 14.9 GB/s on P244br
Storage battery	HP BLc 12 W Smart Storage Battery (Note: Comes standard with any SKU using the HP Smart Array P244br)
Networking	Choice of 2 x 10GbE, FlexFabric 10 GB, FlexFabric 10/20 GB
USB ports/SD/other	1 x USB 3.0 (internal), 1 x microSD, future optional Dual microSD/future optional M.2 support
On-premise management	HP OneView and HP iLO Advanced for BladeSystem (Note: HP OneView support for ProLiant Gen9 in DL and BL servers only. Expected availability December 2014)
On-cloud management	HP Insight Online with enhanced mobile app
On-system management	HP iLO, SPP, HP SUM, Scripting Tools (Scripting Toolkit for Linux and Windows, HP Scripting Tools for Windows PowerShell, and HP RESTful Interface Tool)
Power and cooling	Enclosure-based (94 percent Platinum Plus)
Power and cooling industry compliance	ASHRAE A3 (limited configurations)
Power and cooling discovery services	Enclosure-based
Power and cooling location discovery services	Enclosure-based
System ROM	UEFI or Legacy
Warranty	Three-year parts, three-year labor, three-year onsite

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 to 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 can 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

#### **HP Services**

Let HP help guide you to the New Style of IT. HP Technology Services deliver confidence, reduce risk, and help you realize agility and stability. Our **Consulting** services provide advice and guidance to safely move your workloads to newer technologies. Our implementation and installation services enable faster, reliable startup of your new HP ProLiant Gen9 servers, and our support portfolio allows you to get connected and get back to business. We recommend HP **Proactive Care** for ProLiant servers to prevent issues and resolve problems faster. HP Foundation Care provides a choice of coverage levels and response times for hardware and software support. HP **Datacenter Care** enables you to operate and evolve your IT environment with less cost and more agility. This includes our **Flexible Capacity** service to acquire IT without impacting capital budget. Our support technology lets you tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, from any location, at any time. hp.com/services/proliant



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