

# HPE ProLiant BL660c Gen9 Server Blade

## ProLiant Server Blades



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### What's new

- E5-4600 v4 Intel Xeon processors and HPE 2400MT/s DDR4 SmartMemory.
- Support for two NVMe SSDs for high performance caching.
- Optional 120GB Dual M.2 Kit.
- HPE PCIe Workload Accelerators for up to 3.2 TB of flash based cache.
- Up to four SFF drives, internal USB 3.0, optional dual micro-SD, and optional M.2 support deliver a variety of system boot

### Overview

Do you need a server blade designed to scale for your data-intensive workloads?

The HPE ProLiant BL660c Gen9 Server Blade is ideal for virtualization, database, business processing, and other four processor (4P) applications where fine-tuning of data center space and price/performance is paramount. Focused on flexibility, it offers more storage options, faster I/O, and more powerful processing to meet any workload needs at a low TCO. All of this is managed by HPE OneView, the converged management platform that accelerates IT service delivery and

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options.

boosts business performance.

Supporting the Intel® Xeon® E5-4600 v3 or v4 processors, the BL660c Gen9 Server Blade redefines density-optimized 4-socket blade technology without compromising on performance. HPE DDR4 SmartMemory offers up to a 33% [1] performance increase from our previous generation. Additional support includes support for 2 NVMe SSDs, tiered array controller options, 12 Gb/s SAS, 20 Gb FlexibleLOM NICs, M.2, and USB 3.0.

## Features

### **Ideal 4-socket Dense Form Factor Without Compromising on Performance, Scalability, and Expandability**

The HPE ProLiant BL660c Gen9 Server Blade delivers four socket (4S) computing in a single-wide, full-height form factor. It has support for two or four cost-effective Intel Xeon E5-4600 v3 or v4 processors each with up to 22 cores and 135 watts without system configuration restrictions.

Provides the flexibility to optimize your core IT applications with right-sized storage for your workload, lowering TCO; all managed by HPE OneView, the converged management platform that accelerates IT service delivery and boosts business performance.

The HPE Gen9 FlexibleLOM solution for your choice of 10 Gb or 20 Gb FlexFabric ports.

Supports four Small Form Factor (SFF) drive bays for increased internal storage capacity.

### **Improved Memory, Storage, and I/O Performance**

The HPE ProLiant BL660c Gen9 Server Blade delivers up to 21% [2] performance increases with Intel Xeon E5-4600 v4 processors.

HPE DDR4 SmartMemory at 2400MT/s (up to 4 TB with 128 GB DIMMs): +33% throughput compared to competition and 35% lower power consumption than 1.5 V DDR3 at the same bin speed.

Optional support for up to two SFF NVMe Solid State Disks (SSDs) for additional performance.

Optional HPE Smart Array P246br storage controller with 1 GB Flash-Write Back Cache (FWBC) DDR3 at 1866 MHz improves storage performance for demanding workloads.

### **Flexibility to Configure for Your Specific Workload for Reduced TCO**

The HPE ProLiant BL660c Gen9 Server Blade delivers tiered storage controller options (HPE Smart Array P246br Controller or the HPE Dynamic Smart Array B140i Controller) for increased deployment flexibility.

Every BL660c Gen9 Server Blade includes USB 3.0, optional dual Micro-SD, two SFF drives, 12 Gb SAS and optional 64GB or 120GB M.2 support for configuration variety of system boot options at an optimal price.

Both Unified Extensible Firmware Interface (UEFI) and Legacy BIOS modes available for increased configuration and deployment versatility.

**Transforming Business Economics by Accelerating Service Delivery**

HPE OneView provides the HPE ProLiant BL660c Gen9 Server Blade with the Power of One—a single comprehensive view of the data center, managing hardware, software, firmware, and drivers.

HPE Integrated Lights-out (iLO) software features server lifecycle management advancements including iLO federation, which remotely manages groups of servers at scale with built-in rapid discovery of all iLOs, group configurations, group health status, and ability to determine iLO licenses.

## Technical specifications

## HPE ProLiant BL660c Gen9 Server Blade

<b>Processor family</b>	Intel® Xeon® E5-4600 v3 product family Intel® Xeon® E5-4600 v4 product family
<b>Processor speed</b>	2.9GHz
<b>Number of processors</b>	4 or 2
<b>Processor core available</b>	6 or 10 or 12 or 14 or 16 or 18 or 22
<b>Processor cache</b>	55MB L3 45MB L3 40MB L3 35MB L3 30MB L3 25MB L3 20MB L3
<b>Form factor (fully configured)</b>	4 (c3000) 8 (c7000)
<b>Form factor chassis</b>	Blade
<b>Drive description</b>	(4) SFF SAS/SATA/SSD or (2) SFF NVMe (optional) SSD Hot plug, depending on model
<b>Expansion slots</b>	(3) Maximum - For detail descriptions reference the QuickSpecs
<b>Memory type</b>	DDR4 SmartMemory
<b>Memory slots</b>	32 DIMM slots
<b>Maximum memory</b>	4TB with 128GB LRDIMMs
<b>Memory protection features</b>	Advanced ECC
<b>Network controller</b>	10Gb 536FLB FlexFabric Adapter 2 Ports per controller Applicable to all models
<b>Storage controller</b>	Dynamic Smart Array B140i or Smart Array P246br Applicable to all models
<b>Power supply type</b>	Enclosure-based
<b>System fan features</b>	Enclosure-based
<b>Infrastructure management</b>	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced for BladeSystem (optional), HP OneView Advanced (optional), HP Insight Control (optional)
<b>Warranty</b>	3/3/3 - Server Warranty includes three years of parts, three years of labor, three years of onsite support coverage. Additional information regarding worldwide limited warranty and technical support is available at: <a href="http://h17007.www1.hp.com/us/en/enterprise/servers/warranty/index.aspx">http://h17007.www1.hp.com/us/en/enterprise/servers/warranty/index.aspx</a>

**Additional resources**

**QuickSpecs**

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**HPE Pointnext**

**HPE Pointnext** leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes—Advisory, Professional, and Operational Services is designed to help evolve and grow today and into the future.

**Operational Services**

- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalize deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.
- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.

**Advisory Services** includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

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[1] HPE Internal testing: 14% to 33% better performance is based on similar capacity DIMM running on Hewlett Packard Enterprise server compared to a non HPE server with DDR4

[2] Intel internal testing: Up to 21% general compute throughput claim based on est. internal testing comparing 4x Intel Xeon processor E5-4669v4 to E5-4669 v3



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