HPE ProLiant BL460c Gen10 Server Blade

ProLiant Server Blades

Overview

Are you looking to scale business performance and securely drive traditional and Hybrid IT workloads across a converged infrastructure?

Designed for a wide range of configuration and deployment options, the HPE ProLiant BL460c Gen10 Server Blade provides the flexibility to optimize your core IT applications with right-sized storage for the right workload for a lower TCO. All of this is managed by HPE OneView, the converged management platform that accelerates IT service delivery and boosts business performance.

The HPE BL460c Gen10 Server Blade now offers Intel® Xeon® Processor Scalable Family with up to 25% [6] bin to bin performance gain over the previous generation, plus 2666 MT/s HPE DDR4 SmartMemory. Additional support includes tiered storage controller options, internal 12 Gb/s SAS, 20 Gb FlexibleLOMs, support for two M.2, NVMe, or up to four uFF drives, and HPE ProLiant Persistent Memory options.

Features

Drive Improved Economics with Your Infrastructure

The HPE ProLiant BL460c Gen10 Server Blade drives up to 75% reduction in licensing costs by modernizing your IT infrastructure [1].

Improve your time to value with 64% faster server deployment [2] allowing you to capitalize on business opportunities in an increasingly fast paced environment.

Accelerate to Increase Business Agility

The HPE ProLiant BL460c Gen10 Server Blade with 16 GB HPE Persistent Memory [3], optimized on HPE ProLiant, delivers unprecedented levels of performance and data resiliency for databases and analytic workloads.

Intelligent System Tuning. Jitter smoothing to deliver deterministic and reliable processor frequencies and to improve workload performance when in Intel Turbo Boost Mode. Workload matching to provide optimized and pre-selected server profiles for optimal workload performance.

The HPE ProLiant BL460c Gen10 Server Blade supports industry standard technology leveraging the latest Intel® Xeon® Processor Scalable Family with up to 26 cores, internal 12 Gb SAS and 2.0 TB [4] of HPE DDR4 SmartMemory.

Flexible storage options to quickly enable extended local capacity and cost effective boot disk storage. Up to four drives with uFF, or up to two drives with SFF and NVMe.

Simplify With Converged Operations and Management

The HPE ProLiant BL460c Gen10 Server Blade and HPE OneView drive up to 40% staff time savings from daily operations [5].

Reduce IT deployment, maintenance time and support costs with HPE OneView and software-defined templates to automate new server deployments.

Faster HPE Virtual Connect Enterprise Manager Software in-service Domain migration transitioning from legacy management tools to HPE OneView 3.0 and later when compared to previous versions.

HPE Integrated Lights-out (iLO) 5.0 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.

Security Innovations

Silicon root of trust. Only HPE offers industry standard servers with major firmware (FW) anchored directly into the silicon. Millions of lines of FW code run before server operating system boots.

Firmware Runtime Validation. Daily checking of firmware every 24 hours verifying validity and credibility of UEFI, CPLD, iLO, IE, and ME.

Secure recovery - recovering firmware to known good state after detection of compromised code.

Commercial National Security Algorithms (CNSA). Highest level of security not offered by any other industry server providers.

Technical specifications HPE ProLiant BL460c Gen10 Server Blade

Processor family	Intel® Xeon® Scalable 8100 series Intel® Xeon® Scalable 6100 series Intel® Xeon® Scalable 5100 series Intel® Xeon® Scalable 4100 series Intel® Xeon® Scalable 3100 series
Processor speed	3.6 GHz
Number of processors	2 or 1
Processor core available	4 or 6 or 8 or 10 or 12 or 14 or 16 or 18 or 20 or 22 or 24 or 26, per processor, depending on model
Processor cache	8.25 MB L3; 11.00 MB L3; 13.75 MB L3; 16.50 MB L3; 19.25 MB L3; 22.00 MB L3; 24.75 MB L3; 27.50 MB L3; 30.25 MB L3; 33.00 MB L3; 35.75 MB L3
Drive description	2 SFF SAS/SATA/SSD or 2 SFF NVMe (optional) SSD
Expansion slots	2, for detail descriptions reference the QuickSpecs
Memory type	HPE DDR4 SmartMemory
Memory slots	16 DIMM slots
Maximum memory	2 TB, using 128 GB DIMMs, available second half 2017
Network controller	HPE 10 Gb 536FLB FlexFabric adapter 2-ports per controller or HPE 20 Gb 650FLB FlexFabric adapter 2-ports per controller, depending on model
Storage controller	HPE Smart Array S100i and/or HPE Smart Array P204i-b, depending on model
Power supply type	(6) Enclosure-based
System fan features	Hot-plug enclosure-based
Infrastructure management	HPE iLO Management with Intelligent Provisioning (standard) HPE iLO Advanced for BladeSystem, HPE OneView Advanced (optional)
Warranty	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: http://h20564.www2.hpe.com/hpsc/wc/public/home. Additional Hewlett Packard Enterprise support and service coverage for your product can be purchased locally. For information on availability of service upgrades and the cost for these service upgrades, refer to www.hpe.com/services/support.

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 you evolve and grow today and into the future.
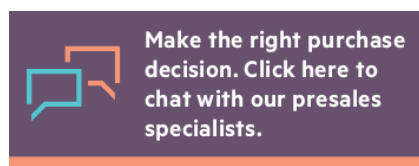
Operational Services

- **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 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 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.

- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.

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.

Professional Services helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

[1] Consolidate and save on Virtualization costs, HPE a0000529ENW.pdf. A Principled Technology report, Upgrading to BL460c Gen9 servers reduces software licensing footprint and support costs by up to 75% yearly. Gen10 servers will deliver further savings

[2] 64% faster server deployment IDC white paper sponsored by HPE, "The Business Value of HPE BladeSystem", Document #28762 © November 2015 IDC

[3] with 16 GB NVDIMMs available second half of 2017

[4] with 128 GB DIMMS available second half of 2017

[5] 40% savings: IDC whitepaper sponsored by HP, Achieving Organizational Transformation with HPE Converged Infrastructure Solutions for SDDC, January 2014, IDC #246385

[6] up to 25% performance bin-to-bin. HPE and Intel 2017

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