Data sheet

HP ProLiant DL320e Gen8 v2 Server

Compact single-application server suitable for deployment anywhere

A single processor 1U short-depth rack server designed to give you a competitive edge has arrived. The new HP ProLiant DL320e Gen8 v2 Server packs the latest computing technology and Gen8 embedded management features into less space at a low cost.

Our new server is about half the size of the previous ProLiant DL320e Gen8 Server, but it packs a powerful punch. Unlike most essential products, the ProLiant DL320e Gen8 v2 Server supports the latest Intel® Xeon® Processor E3-1200 v3 Product Family and offers 2 PCIe Gen3 I/O slots, DDR3 1600 MHz memory, and up to 8 TB of internal storage—all in a 15.07-inch short-depth chassis. Server reliability and quality are enhanced with HP SmartMemory and HP SmartDrive technologies, while our state-of-the-art HP Integrated Lights-Out (iLO) Management Engine makes the server easier to install, configure, manage, and maintain.

If you want to pack more servers per unit area on a smaller budget, the ProLiant DL320e Gen8 v2 Server offers superior technology at an affordable price. Designed for outstanding flexibility and versatility, it supports a wide range of options to efficiently handle a variety of workloads, such as file/print, Web serving/hosting, networking, and security. Whether your organization is a large corporation or a small business, you can easily configure the server to match your particular needs.

The ProLiant DL320e Gen8 v2 Server offers:

- **A compact design**—its short 15.07-inch chassis meets mobility and space requirements, and provides easy access to system components to improve serviceability.

- **Flexible configuration options**—these options allow businesses to meet varied computing needs with features such as:

  - Intel Xeon Processor E3-1200 v3 Product Family with support for up to 3.6 GHz and four cores, and the processing power to handle a variety of workloads

  - Outstanding configuration flexibility that supports either four small form factor (SFF) or two large form factor (LFF) drive configurations, four DDR3 UDIMMs, 300 W or 750 W power supplies, and enhanced deployment options via two PCIe slots and seven USB ports

  - HP SmartMemory and HP SmartDrive technologies with advanced error handling to reduce data loss and downtime while boosting workload performance and improving serviceability

  - HP Smart Array options that provide RAID mirroring and striping, along with flash-backed write cache (FBWC), to protect critical data capability

  - NEBS-compliance (with the four SFF configuration and 750 W power supply) provides high product quality and reliability for telecom environments

- **Seamless network connectivity**—compatibility with the 24-port HP PS1810 series switch extends the benefits of the HP Converged Infrastructure. HP PS1810 series switches provide seamless connectivity and greater data availability, and include features such as a user-friendly interface and link aggregation.

- **Built-in HP ProLiant Gen8 technologies**—these technologies help businesses simplify their IT management and improve system uptime. The HP ProActive Insight Architecture embedded inside each ProLiant server allows you to gain insight into server assets and health status, and use a rich set of capabilities that automate and simplify system provisioning, troubleshooting, and firmware, as well as software updates.

  - The HP Integrated Lights-Out 4 (iLO 4) management engine assists you throughout the server's entire lifecycle—from initial deployment, through ongoing management, to service alerting. A dedicated iLO connection makes data transmissions faster and more secure.

HP Integrated Lights-Out 4 (iLO 4) features include HP Intelligent Provisioning and HP Active Health system

  - HP Intelligent Provisioning is a single embedded tool for all server setup and configuration tasks. All firmware, drivers, and tools are built into ProLiant Gen8 servers, and don't require you to input CDs and DVDs.

  - HP Active Health System proactively manages server health by predicting and avoiding failures with 24x7 continuous agentless health monitoring and alerting, and 100 percent configuration change logging to prevent unplanned downtime. You can start problem analysis faster by using unified diagnostic tools with secure data transfer to HP service and support.

ProLiant servers also feature the HP Smart Update Manager. It updates your firmware and system software with a simple, intuitive user interface and one-click simplicity that guides you through repository definition, device discovery, analysis, and updates.

Remote server management options

We understand that cutting operational costs, improving service levels, and maintaining competitiveness are critical factors for any business.

To address this, we have designed a complete set of HP Insight Management licenses, which provide remote management from single server setup to complete data center management on all HP ProLiant servers for customers with different sizes and types of businesses.

To complete your solution we recommend the HP iLO Advanced license or for smaller businesses just needing remote access the HP iLO Essentials license is just right for your IT needs. To learn more and to understand which license is right for your environment, download our HP iLO Family data sheet or visit hp.com/go/icserverprovisioning.

Key features and benefits

Features	Benefits
• Compact, short-depth rack design	• Ideal for budget-conscious customers with space constraints
	• Meets mobility and space requirements
• Latest technology—Intel Xeon Processor E3-1200 v3 Product Family, HP SmartDrive (up to 8 TB in 2 LFF Hot Plug configuration) and SmartMemory technologies	• Higher performance in a short-depth server
• 2 LFF or 4 SFF configurations, 2 PCIe Gen3 slots, and up to 7 USB ports	• Improved flexibility for configuring to your exact needs
• Built-in data protection features	• Reliability you can count on
• Embedded management features	• Easier installation, configuration, management, and maintenance

HP ProLiant DL320e Gen8 v2 and DL120 G7 server comparison

	ProLiant DL320e Gen8 v2 Built on ProActive Insight architecture	ProLiant DL120 G7
Compute	Intel Xeon E3-1200 v3 Series, 4 cores PCIe 3.0, up to 2 available slot(s)	Intel Xeon E3-1200 Series, 2/4 cores PCIe 2.0, up to 2 available slot(s)
HP Smart Socket guide	X	X
Memory	(4) DDR3, up to 1600 MHz (32 GB max)	(4) DDR3, up to 1333 MHz (32 GB max)
HP SmartMemory	✓	X
Storage (std.)	Dynamic Smart Array B120i 4 SFF/2 LFF max, HDD/SSD	HP Smart Array B110i 8 SFF/4 LFF max, HDD/SSD
HP SmartDrives	✓	X
FBWC	up to 2 GB DDR3 1333 MHz	up to 1 GB DDR2 800 MHz
Networking	2x1GbE	2x1GbE
FlexibleLOM	X	X
Embedded Management	HP Integrated Lights-Out 4 (iLO 4)	HP Integrated Lights-Out 3 (iLO 3)
Intelligent Provisioning	✓	X
Active Health System	✓	X
Agentless Management	✓	X
Cloud-based Management	HP Insight Management 7	None
HP Insight Control (agentless)	✓	X
HP Insight Online	✓	X
Power and Cooling	up to 94%	up to 92%
3D Sea of Sensors	✓	X

ProLiant DL320e Gen8 Server offers multiple build-to-order model configurations

Base model	Performance model
717170-xx1 (US, EU, Japan, China, AP)	**722547-xx1 (US, EU, AP)**
• (1) Intel Xeon Processor E3-1220 v3 (3.1 GHz/4 core, 80 W)	• (1) Intel Xeon Processor E3-1240 v3 (3.4 GHz, 4 core, 80 W)
• 4 GB DDR3 UDIMM memory	• 8 GB DDR3 UDIMM memory
• Embedded HP Smart Array B120i Storage Controller	• HP Smart Array P222 Controller with 512 MB FBWC
• Dual 1GbE ports	• Dual 1GbE ports
• (2) PCIe slots	• (2) PCIe slots (one slot occupied by P222 controller)
• 2-bay LFF Hot Plug drive cage	• 4-bay SFF Hot Plug drive cage
• (1) 300 W power supply	• (1) 300 W power supply

Note: An entry model will be introduced in the future with a desktop series processor.

Technical specifications

Processor family	Intel Xeon Processor E3-1200 v3 Product Family
Processor cache	8 MB L3 (for quad-core processors)
Number of processors	1
Processor cores available	4
Max processor speed	3.6 GHz
Drive description	(2) LFF SAS/SATA/SSD (Applicable for Hot Plug; Non-Hot Plug 2LFF supports SATA drives) (4) SFF SAS/SATA/SSD
Supported drives	Hot Plug 2.5-inch SAS Hot Plug 2.5-inch SATA Hot Plug 3.5-inch SAS Hot Plug 3.5-inch SATA Hot Plug 2.5-inch SAS SSD Hot Plug 2.5-inch SATA SSD Hot Plug 3.5-inch SATA SSD Non-Hot Plug 3.5-inch SATA
Memory slots	4 DIMM slots
Max memory	32 GB

Technical specifications (Continued)

Memory type	PC3-12800E UDIMMs DDR3
	PC3L-10600E UDIMMs DDR3
Memory protection features	ECC
	Unbuffered ECC
Network controller	(1) Ethernet 1 Gb 2-port NC332i adapter
	Additional options include various Gigabit and 10 Gigabit Ethernet adapters
Storage controller	(1) HP Dynamic Smart Array B120i SATA RAID
	Performance BTO model also has (1) HP Smart Array P222 Storage Controller. Additional options include various controllers such as high-performance HP Smart Array SAS controllers (with up to 2 GB FBWC).
Expansion slots	2 PCIe:
	1 PCIe x16 Gen3 (x8 speed), half length, full height
	1 PCIe x8 Gen3 (x4 speed), low profile
USB ports	5 total USB 2.0 ports: 2 rear, 2 front, 1 internal (optional)
	2 USB 3.0 ports: 2 rear
Management	HP iLO Management Engine, HP iLO Advanced (optional), HP iLO Essentials (optional), HP Insight Control software (optional)
System fans	2 front fan assemblies and 1 center fan assembly (non-redundant) ship standard
Form factor chassis	1U rack form factor (15.07" chassis depth)
Power supply type	300 W (80% efficiency) standard; 750 W DC common slot power supply (94% efficiency) optional
OS support	Microsoft® Windows® Server
	Red Hat Enterprise Linux (RHEL)
	SUSE Linux Enterprise Server (SLES)
	VMware
Warranty standard statement	Global limited warranty
Warranty	1-year parts, 1 year-labor, 1-year onsite

Note: An entry model will be introduced in the future with a desktop series processors.

HP QuickSpecs

HP ProLiant DL320e Generation 8 (Gen8) v2 Server (HTML)

HP ProLiant DL320e Generation 8 (Gen8) v2 Server (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

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. To learn more, visit hp.com/go/factoryexpress.

Customer technical training

Gain the skills you need with ExpertOne training and certification from HP. With (HP ProLiant, HP Integrity, or HP NonStop) 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

Get the support you need

You can now get the support you need by choosing from a number of packaged service solutions designed to address your unique needs.

HP Optimized Care enables enhanced performance with HP ProLiant Server Hardware Installation, 3-year 24-hour support, and HP Proactive Care Services.

HP Standard Care helps you maintain high levels of uptime with HP ProLiant Server Hardware Installation, 1-year 24x7 4-hour response, and HP Proactive Care Services.

HP Basic Care provides the minimum recommended support with HP ProLiant Server Hardware Installation, 1-year 24x7 4-hour response, and HP Collaborative Support Service.

Get more detail on HP Services at hp.com/services/proliant.

Learn more at
hp.com/servers/proliantdl320e-gen8v2

Sign up for updates
hp.com/go/getupdated

Share with colleagues

Rate this document

4AA4-7136ENW, June 2013