

HP ProLiant DL320e Gen8 Server

Ideal single-application and IT infrastructure server



As a growing organization, you know firsthand what it takes to run your business on a day-to-day basis. You must manage massive data growth and increasing IT complexity with limited staff, fixed budgets, and space constraints—while also trying to improve efficiency and productivity.

Meeting all those needs is challenging for any organization—more so for a small or midsize company. But HP can help. We believe every organization—regardless of size—should benefit from cutting-edge performance-enhancing technology. So whether you have five employees or 500, and whether your workloads are limited to email and Web presence or a wide array of standalone applications, you can count on the HP ProLiant DL320e Gen8 Server to meet your needs.

With a one processor (1P), 1U rack design, the HP ProLiant DL320e Gen8 Server is the ideal solution for running single applications or dedicated IT services. Renowned for performance and affordability, the HP ProLiant DL320e Gen8 Server offers quad-core processor computing power with faster memory and larger storage capacity, delivered in a compact package. Occupying very little space, this rack server delivers enhanced innovations in reliability and management serviceability to provide a comprehensive solution that helps you focus on what counts—growing your business.

The HP ProLiant DL320e Gen8 Server supports a range of technology to meet your demanding business needs:

- Intel® Xeon® E3-1200 v2 series, Intel® Core™ i3, and Pentium® processors
- PCIe Gen3 support
- Solid state drive support
- Up to 32 GB DDR3 1,600 MHz memory
- Up to 16 TB internal storage
- RAID storage
- High-efficiency Hot Plug redundant power supply kit

Key features and benefits

Features	Benefits
Platinum Plus Hot Plug redundant power supply, offering up to 94 percent efficiency ¹	Smoother, quicker, and more efficient failovers Lower IT expenses
HP Sea of Sensors technology	Lower energy needs across the infrastructure; makes the overall facility more efficient and reduces its carbon footprint
Intel Xeon E3-1200 v2 processors	The right computing power for your business workloads
Up to 32 GB memory with 1,600 MHz speed	Faster caching and better performance
Support for up to 16 TB internal storage	Ability to grow your data center to match your business's growth
Fast-access PCIe riser solutions and HP SmartMemory	Enhanced serviceability

¹ HP Integration System test, April 2012. To see HP Common Slot power supplies that meet the 80 PLUS requirements for Platinum Certification, visit: 80plus.com

Hassle-free server management

Embedded within each HP ProLiant DL320e Gen8 Server, the HP ProActive Insight Architecture offers deep insights into server assets and health status. Using a rich set of capabilities, HP ProActive Insight Architecture automates and simplifies system provisioning and troubleshooting, as well as updating firmware and software.

To reduce the cost of server deployment, health monitoring, and server power and temperature control, HP ProLiant DL320e Gen8 Servers include the HP Integrated Lights-Out 4 (iLO 4) Management Engine. By integrating essential management capabilities, HP iLO 4 enables you to remotely manage and configure your servers from anywhere at any time. If you prefer, you can deploy the optional iLO Essentials—exclusively packaged for your server management needs.

To assist the HP ProLiant DL320e Gen8 Server throughout its lifecycle, the HP iLO 4 Management Engine provides a complete set of embedded management features including:

- **HP Intelligent Provisioning**—A single tool for all server set-up and configuration tasks, HP Intelligent Provisioning automates system configuration, deployment, and updates. All firmware, drivers, and tools are built into Gen8 servers, so no CDs or DVDs are required for installation.
- **HP Active Health System**—Through 24x7 proactive management of the HP ProLiant DL320e Server health, HP Active Health System predicts and avoids failures that could lead to unplanned downtime.

For complete information on HP iLO 4 capabilities and offerings, visit: hp.com/go/ilo

HP ProLiant Gen8 and G7 server comparison

	HP ProLiant DL320e Gen8 Server built on HP ProActive Insight Architecture	HP ProLiant DL120 G7 Server
Compute	Intel Xeon E3-1200 v2, two/four cores PCIe 3.0	Intel Xeon E3-1200, two/four cores PCIe 2.0
Memory	Four DDR3, up to 1,600 MHz (32 GB max)	Four DDR3, up to 1,333 MHz (32 GB max)
HP SmartMemory	✓	✗
Storage	HP Dynamic Smart Array B120i Eight SFF/four LFF max HDD/SSD	HP Smart Array B110i Eight SFF/four LFF max HDD
HP SmartDrives	✓	✗
Networking	2 x 1GbE HP Ethernet 1 Gb two-port 330i adapter (x1)	2 x 1GbE HP NC112i one-port Ethernet server adapter (x2)
Embedded management	HP iLO 4	HP iLO 3
HP Intelligent Provisioning	✓	✗
Active Health System	✓	✗
HP Agentless Management	✓	✗
Cloud-based management	HP Insight Management 7	None
HP Insight Control (agentless)	✓	✗
HP Insight Online	✓	✗
Power and cooling	Platinum Plus RPS option (94 percent efficiency) available	RPS option not as efficient as Platinum Plus
3D Sea of Sensors	✓	✗

HP ProLiant DL320e Gen8 Server offers multiple build-to-order (BTO) model configurations

Entry model 675420-xx1 (U.S./Japan/PRC/AP/EU)	Base model 675421-xx1 (U.S./Japan/PRC/AP/EU)	Performance model 675422-xx1 (U.S./Japan/AP/EU)
One Intel Pentium G2120 3.1 GHz/2C Two GB DDR3 UDIMM memory Embedded HP Dynamic Smart Array B120i Storage Controller Dual 1GbE ports Two PCIe slots Four-bay Non-Hot Plug LFF Drive Cage One 350 W power supply Rail kit (fixed) One 500 GB HDD (NHP SATA)	One Intel Xeon E3-1220 v2 3.1 GHz/4C Four GB DDR3 UDIMM memory Embedded HP Dynamic Smart Array B120i Storage Controller Dual 1GbE ports Two PCIe slots Four-bay Hot Plug LFF Drive Cage One 350 W power supply Rail kit (fixed)	One Intel Xeon E3-1240 v2 3.4 GHz/4C Eight GB DDR3 UDIMM memory HP Smart Array P222 Storage Controller with 512 MB flash-backed write cache (FBWC) Dual 1GbE ports One PCIe slot available Four-bay Hot Plug LFF Drive Cage One 350 W power supply Rail kit (fixed)

Technical specifications

Processor family	Intel Xeon E3-1200 v2 processor family Intel Core i3: i3-3240, i3-3220T Intel Pentium: G2120, G2100T
Processor cache	8 MB L3 (for Quad-core processors); 3 MB L3 (for Dual-core processors)
Number of processors	One
Processor cores available	Four or two
Max processor speed	3.7 GHz
Drive description	Four LFF SAS/SATA/SSD; Eight SFF SAS/SATA/SSD
Supported drives	Non-Hot Plug 3.5-inch SATA; Hot Plug 3.5-inch SATA; Hot Plug 3.5-inch SATA SSD; Hot Plug 3.5-inch SAS; Hot Plug 2.5-inch SATA; Hot Plug 2.5-inch SATA SSD; Hot Plug 2.5-inch SAS; Hot Plug 2.5-inch SAS SSD
Memory slots	Four DIMM slots
Memory max	32 GB
Memory type	PC3-12800E UDIMMs DDR3; PC3L-10600E UDIMMs DDR3
Memory protection	Unbuffered ECC
Network controller	One 1 Gb 330i Ethernet two-port Additional options include various Gigabit and 10 Gigabit Ethernet Adapters
Storage controller	One HP Dynamic Smart Array B120i SATA RAID Performance BTO model also has one 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	Two PCIe: <ul style="list-style-type: none"> • One PCIe x 8 Gen2 (4X speed), low profile • One PCIe x 16 Gen3 (16X speed), half length, full height
USB ports	Seven USB 2.0 ports: four rear, two front, one internal (optional)
Management	iLO Management Engine, iLO Essentials or iLO Advanced (optional)
System fans	Four fans, non-redundant
Form factor chassis	1U rack form factor
Power supply type	Power supply: 350 W Standard. 460 W Common Slot Hot Plug power supplies (optional)
OS support	<u>Microsoft® Windows® Server</u> <u>Red Hat Enterprise Linux</u> <u>SUSE Linux Enterprise Server</u> <u>VMware</u>
Warranty standard statement	Global limited warranty
Warranty	One-year parts, one-year labor, one-year onsite
QuickSpecs URL	h18000.www1.hp.com/products/quickspecs/14326_div/14326_div.html h18000.www1.hp.com/products/quickspecs/14326_div/14326_div.pdf

When you purchase a new storage and server solution, you can work with HP Factory Express to customize the hardware to your exact specifications in the factory—helping speed deployment. hp.com/go/factoryexpress.

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment. hp.com/go/hpfinancialservices.

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

Services and support

Get the support you need by choosing a service solution designed to address your unique needs.

- **HP Optimized Care**—Enhances performance with HP ProLiant Server Hardware Installation, three-year 24-hour support, and HP Proactive Care.
- **HP Standard Care**—Helps maintain high levels of uptime with HP ProLiant Server Hardware Installation, one-year HP 24x7 four-hour response, and HP Proactive Care.
- **HP Basic Care**—Provides the minimum recommended support with HP ProLiant Server Hardware Installation, one-year HP 24x7 four-hour response, and HP Collaborative Support.
- **HP Proactive Support Services**—Helps enhance performance, increase system uptime, and prevent problems before they cause outages or performance degradation. This service provides direct access to a technical expert to help proactively avoid problems, deliver advanced technical response, enable remote hardware and software assistance, and support HP Insight software management tools.
- **HP Collaborative Support**—Offers a single point of contact for server problem diagnosis, hardware problem resolution, basic software problem diagnosis, fault isolation, and resolution for HP systems. If an issue with an HP-supported third-party software product cannot be resolved by applying known fixes, HP will contact the third-party vendor and create a problem ticket on your behalf.
- **Insight Remote Support**—Provides 24x7 remote monitoring, proactive notifications, and problem resolution. To learn more visit: hp.com/go/insightremotesupport.
- **HP ServiceOne**—A network of more than 70,000 channel partners located strategically around the world. Through the HP ServiceOne program, we combine local expertise with global HP resources to meet your needs, your way.

Learn more at
hp.com/servers/dl320e-gen8

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