

HP ProLiant DL320 Generation 5p Server

Data sheet



The HP ProLiant DL320 Generation 5p (G5p) is an enterprise server at an entry-level price. Optimised for rack use, this highly manageable one-processor, 1U-height server is ideal for IT infrastructure applications as well as web and edge-of-network applications.

Can your servers keep pace with your business?

If your business is running demanding information technology (IT) infrastructure or edge-of-network applications, you need high-performance servers that are reliable, flexible and ready to grow with your business. What's more, to keep pace with a fast-moving business, you need enterprise-class features that make it easy to manage your IT infrastructure, including servers in remote offices.

How do you find all of this in a single server? Look to the HP ProLiant DL320 G5p Server. This new, rack-optimised server meets your computing needs with a wide range of enterprise-class features – delivered at an entry-level price.

Move ahead with next-generation features.

The low-cost HP ProLiant DL320 G5p Server combines powerful quad-core computing, advanced management capabilities and support for up to 3 TB of internal storage – all in an ultra-dense 1U rack-optimised server.

For simplified remote management, the DL320 G5p Server includes a remote console and virtual keyboard, video, mouse (KVM) capabilities delivered via an embedded HP Integrated Lights-Out 2 (iLO 2) feature. It also brings you the advanced server management features of HP Systems Insight Manager (HP-SIM) and the accelerated deployment capabilities of HP SmartStart and other HP ProLiant Essentials software.

Optional upgrades provide support for highly reliable hot-plug Serial Attached SCSI (SAS) drives and/or up to four SAS or Serial ATA (SATA) drives to give you the flexibility to meet changing needs in your data centre. Plus, you get the cost-effective single-processor platform with the performance advantages of dual-core or quad-core Intel® Xeon™ processors.

With features like these, the ProLiant DL320 G5p is an ideal solution for single-function or dedicated-user applications where a cost-effective, rack-dense solution is necessary.

Key features and benefits

Low-cost rack-dense platform

The 1U rack-optimised chassis reduces your data centre footprint, while the single-processor architecture and support for 3.5-inch SATA hard drives deliver a price within your budget. Among other features, the DL320 G5p offers:

- A 1U, 26.85-inch (68.19-cm) deep chassis that makes it convenient to dedicate servers to specific applications
- An included fixed mounting rail kit
- A choice of single-core, dual-core and quad-core processors
- Support for the latest Microsoft® Windows®, Novell and Red Hat Linux operating systems
- A dual Gigabit Ethernet server adapter

Enterprise-class monitoring and management

With powerful and highly flexible deployment, monitoring and management tools, the ProLiant DL320 G5p has comprehensive solutions to fit your environment. It provides:

- Embedded Integrated Lights-Out 2 (iLO 2) server management, giving you virtual presence and control of your servers over the network and fully integrated hardware-based management – without needing additional plug-in adapters
- SmartStart deployment tool to radically simplify server deployment
- HP Systems Insight Manager (HP-SIM), the world's leading server management tool
- Tool-free entry and easy access to critical system components for simplified server maintenance
- Easy in-the-rack access to your server via options for optical drives, plus front-panel access to a universal serial bus (USB) port and status light emitting diodes (LEDs)
- A pre-failure warranty on processor, memory and SAS hard drives to give you the security that comes with increased flexibility and control

Flexible storage options

Four different internal hard drive configurations, plus a large number of host bus adapter (HBA) and redundant array of independent disks (RAID) adapter card options, give you a tremendous variety of options for storage. The DL320 G5p offers:

- Support for up to four 3.5-inch SATA hard drives, plus an integrated SATA controller that supports RAID 0 or RAID 1, for up to a total of 3.0 TB of storage
- Support for hot plug SATA or SAS hard drives when using an optional HBA or RAID card

Ideal environments

Enterprise data centres running IT infrastructure or edge appliances

- Enterprise-class ProLiant features allow you to seamlessly install and maintain the DL320 G5p into your data centre, including integrated iLO 2 management, SmartStart and Systems Insight Manager.
- Reliability features help keep your IT infrastructure applications running around the clock, including hot plug hard drive options and front panel ports.

HP Services

The challenge of virtually every IT organisation is similar. To develop and maintain an agile, efficient infrastructure that delivers the service levels your business needs – while staying within your budget. HP Services help you get the most from your ProLiant investment with support solutions designed to give you the choice to address your business needs, service-level commitments, and budgets. Whether you purchase an HP recommended or enhanced service for your ProLiant server you can map your hardware choice to the precise level of support you need.

We deliver total care for your servers resulting in comprehensive support to help design, deploy, manage and support your IT environment and business processes. Our 69,000 skilled professionals and network of Authorized Channel Partners deliver global capabilities across the server lifecycle, including consulting, integration, outsourcing and support.

Cost-effectively upgrade or extend your standard warranty with easy-to-buy, easy-to-use support packages that reduce downtime risks with support levels ranging from a basic service recommendation to an enhanced mission-critical service. These HP Care Pack services are available for purchase with your ProLiant DL320 series servers.

Recommended Care Pack Service solutions

- Three-year, next business day onsite 9-hour x 5-day coverage, hardware support
- Hardware installation

Enhanced Care Pack Service solutions

- Three-year, same business day onsite 13-hour x 5-day coverage, hardware support
- Hardware installation plus operating system installation and startup

Care Pack Service benefits

- Gain total control and maximum flexibility – resulting in tangible savings.
- Improve server availability with single-source support.
- Reduce the complexity of services and support resulting in productivity gains.
- Reduce deployment and manage ProLiant solutions smoothly and efficiently.
- Increase uptime and performance of your servers and solve applications problems quickly.
- Detect, diagnose and repair problems to quickly save time, money and resources.

For more information, visit www.hp.com/services/proliantservices or www.hp.com/go/proliant/carepack.

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Processor and memory

Number of processors	1
Maximum number of cores	4
Processor type	Intel Xeon Intel Core2 Intel Pentium® Intel Celeron®
Processors supported	Quad-core Intel Xeon processors: Xeon X3220: 2.4 GHz, 1066 MHz Front Side Bus (FSB) Xeon X3210: 2.13 GHz, 1066 MHz FSB Dual-core Intel Xeon processors: Xeon X3075: 2.66 GHz, 1333 MHz FSB Xeon X3065: 2.33 GHz, 1333 MHz FSB Core2 E4400: 2.0 GHz, 800 MHz FSB Pentium 2160: 1.80 GHz, 800 MHz FSB Single-core Intel Celeron processors: Celeron 420: SC 1.60 GHz, 800 MHz FSB
Processor core	Single, dual or quad
Cache	8 MB (3200 Series) 4 MB (3075 and 3065 models) 2 MB (Core2 E4400) 1 MB (Pentium 2160 DC) 512 KB (Celeron 420 SC)
Maximum processor speed	2.66 GHz
Multi-processor	1
Maximum front-side bus speed	1333 MHz
Memory type	PC2-6400 DDR2 800 MHz
Standard memory	X3075 DC Model: 1 GB X3220 QC Model: 2 GB
Maximum memory	8 GB
Memory protection	ECC

Storage

Storage type	3.5-inch SAS 3.5-inch SATA
Drives supported	Up to 4 (with optional upgrade): Hot plug LFF SAS 15K 300/146/72/36GB Hot plug LFF SATA 7.2K 750/500/250/160/80 GB
Maximum internal storage	3.0 TB
Maximum internal drives	4
Removable media bays	1
Expansion slots	2 total
Storage controller	Integrated SATA controller and support for optional SAS controller or HBA

Deployment

Form factor	Rack
Rack height	1U
Networking	NC326i Dual Integrated Gigabit NICs
Remote management	Integrated Lights-Out 2 (iLO 2) Remote Management Card
Redundant power supply	Not available
Redundant fans	Not available
Warranty (parts/labour/onsite)	3-year/1-year/1-year

For additional information, including descriptions of all models of the ProLiant DL320 G5p and an extensive list of supported options from HP, see the DL320 G5p Server QuickSpecs, available via http://h18000.www1.hp.com/products/quickspecs/12854_div/12854_div.PDF.

Not ready for a rack environment? Consider the expansion-optimised HP ProLiant ML310 Server in a tower form factor.

Internet and Telco service providers

- If you need to dedicate servers to specific applications or customers, you can take advantage of the compact 1U, 26.85-inch (68.19-cm) deep chassis.
- Our fourth generation Lights-Out management technology, iLO 2, is fully integrated. This gives you full remote control, including virtual KVM and remote CD and USB key access, dramatically reducing the need to travel to the server for routine administration or problem solving.

Growing companies with remote locations or co-located servers

- Cost-effective SATA hard drive and Intel processor options mean you can afford to deploy a full-featured server to a remote location.
- Our world-class testing and reliability, coupled with the DL320 G5p Server's integrated SATA RAID 0/1 and iLO 2 remote-management features, give you the peace of mind to install a DL320 G5p in a remote location.

Financial services

HP Financial Services provides innovative financing and financial asset management programmes to help customers cost-effectively acquire, manage and ultimately retire their HP solutions. For more information on these services, please contact your local HP representative, or visit www.hp.com/go/hpfinancialservices.

For more information

To learn more about the HP ProLiant DL320 G5p Server, contact your local HP representative or visit www.hp.com/servers/proliantDL320.

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To learn more, visit www.hp.com/servers/proliantdl320

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