

# HP ProLiant DL145 Generation 3 Server

Data sheet



The HP ProLiant DL145 G3 Server affordably delivers the features technical and clustered computing environments require.

The HP ProLiant DL145 Generation 3 (G3) server is a maximum performance server that delivers deployment flexibility at an affordable price. The AMD Opteron™-based platform is ideal for large clustered high performance computing (HPC) environments as well as general purpose compute requirements for corporate data centers and cost-conscious small and medium businesses.

A low cost 1U server with two AMD Opteron 2000 series processors, the new ProLiant DL145 G3 delivers outstanding performance for high performance computing, electronic design automation, financial and other compute-intensive environments.

## Key features and benefits

The third generation ProLiant DL145 features enhancements in compute performance, server design, deployment flexibility and management functionality. The DL145 G3 combines HP Smart Array storage technologies with the latest in I/O technology with AMD's latest Opteron processing technology. The DL145 G3 also delivers enhancements to the HP ProLiant Lights Out 100i Remote Management that provide new capabilities for deployment and management.

## Performance

- Up to two AMD Opteron 2000 series processors with Direct Connect Architecture
- Up to 16 GB of 667 MHz DDR2 memory
- Two PCI-Express expansion slots standard, optional PCI-X
- Optional HTX slot upgrade for low-latency high speed HPC interconnect solutions
- Optional HP Smart Array E200 with 64 MB read cache; upgradeable to 128 MB write cache capabilities
- nVidia FX1500 and FX3500 PCI-Express x16 graphics cards for visualization clusters

## Management

- Integrated Lights Out 100i Management for affordable remote management
- IPMI 2.0 and SMASH CLP
- NC326i PCIe Dual Port Gigabit Server Adapter with support for NIC teaming

## Reliability and efficiency

- Hot plug drive models
- Support for up to 1.5 TB of storage with the new 750 GB hot plug SATA drives
- Support for AMD Opteron model 2000 HE processors for improved power efficiency
- Ultra dense 1U rack design offers maximum utilization of server rack and data center space

# HP ProLiant servers are at the heart of an IT infrastructure that is aligned with business objectives and anticipates and supports evolving business needs.

## Ideal environments

### High performance computing environments

- Maximum server performance with AMD Opteron technology, DDR2 667 MHz and PCI-Express x16
- Large memory footprint in 1U package for memory intensive applications
- Room to grow—add processors, memory, hard drives and I/O cards to scale out performance and get a competitive edge
- Ultra dense 1U form factor for large-clustered deployments

### Corporate data centers running core infrastructure applications

- Consistent server performance at an affordable price
- HP Smart Array technology combined with hot plug hard drive models improve availability in the data center
- Sliding rack rails standard and optional cable management arm and fixed cord PDU accommodate dense server deployment
- Basic remote management tools

### Cost-conscious small and medium businesses

- Excellent server performance at a highly affordable price and reliable server design on which you can bet your business
- Internal configuration flexibility supports a variety of applications
- Non-hot plug and hot plug SAS and SATA models expand deployment options

## Key benefits

The HP ProLiant DL145 G3 server provides maximum performance at an affordable price, a reliable and flexible infrastructure for businesses of all sizes, complete system management tools, and excellent vendor service and support.

### Maximum performance

The DL145 G3 combines the latest AMD Opteron processor technology with performance I/O and memory technology at a price that fits any budget.

- Up to two AMD Opteron model 2218 (2.6 GHz, 1 MB per core) dual-core processors with 1 GHz HyperTransport™
- Up to 16 GB PC2-5300 DDR2 RAM
- Two PCI-Express I/O slots (one full-length and one low-profile) with optional PCI-X 133 MHz and HTX slot for added configuration flexibility and maximum I/O performance

### Flexible infrastructure

Whether your business demands running an HPC cluster, a multi-tiered web environment or a single-function application, the DL145 G3 offers configuration versatility to respond to the computing needs of businesses of all sizes.

- Several models to choose from, offering customers the right solution at the right price
- Build-to-order your platform with options (processors, memory, hard drives, etc.) based on your unique performance requirements

## HP ProLiant DL145 Generation 3 Server



<b>Processors</b>	Dual-Core AMD Opteron™ processors: Model 2218 2.6 GHz Model 2216 HE 2.4 GHz Model 2216 2.4 GHz Model 2214 HE 2.2 GHz Model 2210 HE 1.8 GHz Model 2210 1.8 GHz
<b>Cache</b>	1 MB L2
<b>RAM standard/maximum</b>	1, 2 or 4 GB (depending on model); 16 GB maximum
<b>RAM type/speed</b>	PC2-5300 DDR2 667 MHz memory
<b>Memory protection</b>	Advanced ECC
<b>Hard drive capacity</b>	Two drive bays, supporting up to 1.5TB (2 x 750 GB) of SATA disk capacity or 600 GB (2 x 300 GB) of SAS disk capacity
<b>Hard drive controller</b>	Integrated dual-channel SATA controller; SAS drives controlled by an optional Serial Attached SCSI adapter
<b>Form factor</b>	1U rack
<b>Media bays</b>	Optional DVD-ROM
<b>Expansion slots</b>	Two PCI-Express slots—one full length (x16), one low profile (x4) Optional: 1 x PCI-X 133 MHz in place of low-profile; or 1 x HTX in place of full-length PCI-Express slot
<b>Ports</b>	Four USB ports (2 front and 2 rear), rear serial
<b>Network adapter</b>	NC326i PCIe Dual Port Gigabit Server Adapter
<b>Operating systems supported</b>	Microsoft® Windows® 2003 Standard Edition (32 bit) Microsoft Windows 2003 Enterprise Edition (32 bit) Microsoft Windows 2003 Web Edition (32 bit) Microsoft Windows 2003 for Extended Systems Standard Edition (64 bit) Red Hat Linux® AS/ES/WS 3 and 4 (32 and 64 bit) SUSE Linux 8 (32 and 64 bit) SUSE Linux 9 (32 and 64 bit) Solaris 10 32/64-bit
<b>Management</b>	HP ProLiant Lights-Out 100i Remote Management; IPMI 2.0 support (when available); health and UID status
<b>Altitude</b>	Altitude derating of 1.8° F (1.0° C) per every 1,000 ft (300 m) above sea level to a maximum of 10,000 ft (3,000 m)
<b>Temperature</b>	Operating: 50° to 93° F (10° to 35° C) Shipping: -40° to 140° F (-40° to 60° C)
<b>Humidity</b>	Operating: 10% to 80% Non-operating: 10% to 95%
<b>Dimensions</b>	1.70 x 16.78 x 26.75 in. (4.32 x 42.62 x 67.95 cm)
<b>Weight</b>	35 lb (15.87 kg)
<b>Power supply</b>	Rated steady-state power (per power supply): 650W
<b>BTU rating</b>	2,371 BTU/hr (maximum configuration)
<b>Voltage tolerance range</b>	Range input voltage: 90 to 140 VAC/80 to 264 VAC Nominal line voltage: 115 or 230 VAC Input frequency range 47 to 63 Hz Input current load: 7.1 A (115 V), 3.6 A (230 V)
<b>Certifications and standards</b>	ACPI 2.0 compliant PCI 2.2 compliant PXE support WOL support Microsoft Logo certifications IPMI 1.5 compliant

Part number	Product name	Description
411599-xx1*	HP ProLiant DL145 G3 Server	AMD Opteron™ processor Model 2218 (2.6 GHz), 95W, 1 MB L2 cache, 4 GB memory
411596-xx1*	HP ProLiant DL145 G3 Server	AMD Opteron processor Model 2218 (2.6 GHz), 95W, 1 MB L2 cache, 2 GB memory, 80 GB NHP SATA
411597-xx1*	HP ProLiant DL145 G3 Server	AMD Opteron processor Model 2214 HE (2.2 GHz), 68W, 1 MB L2 cache, 2 GB memory
411593-xx1*	HP ProLiant DL145 G3 Server	AMD Opteron processor Model 2214 HE (2.2 GHz), 68W, 1 MB L2 cache, 2 GB memory, 80 GB NHP SATA
411592-xx1*	HP ProLiant DL145 G3 Server	AMD Opteron processor Model 2210 HE (1.8 GHz), 68W, 1 MB L2 cache, 1 GB memory, 80 GB NHP SATA

\*Note: Specific product number by country for above model is as follows:

Country code key: xx =

00 = North America

20 = Brazil

29 = Japan

37 = Asia Pacific

42 = Europe

AA = China

### System management

Like a proven business partner, the DL145 G3 is accessible and easy to work with. Together with HP ProLiant Lights Out 100i Remote Management and support for IPMI 2.0 industry specifications make server management simple without any added system cost.

- Offers the control that you need to respond quickly to server issues wherever they occur
- “Diagnose before dispatch” to avoid travel costs for on-site maintenance of remote systems
- Delivers essential, entry-level remote management at an affordable price
- Browser and command line interface access
- Flexible network connectivity; includes shared network port and/or dedicated network port—whichever is best for your environment

### HP Services

HP Services offers comprehensive services to help design, deploy, manage, and support your IT environment and business processes. Our 69,000 skilled professionals and network of partners deliver global capabilities across the IT lifecycle, including consulting, integration, outsourcing, and support.

#### HP Care Pack Services deliver continuous care

Cost-effectively upgrade or extend your standard warranty with easy-to-buy, easy-to-use support packages. With support levels that range from basic to mission-critical, HP Care Pack Services are available for purchase with your ProLiant DL145 G3 server.

#### Recommended service offerings:

**Enhanced Care** options provide a baseline service level to achieve optimum server availability. *HP ProLiant DL145 G3 server—3-year, 9x5, next-business-day onsite response hardware support.*

**Continuous Care** options deliver a recommended support level with committed same day response or fix times. *HP ProLiant DL145 G3 server—3-year, 13x5, same-business-day, 4-hour onsite response hardware support.*

**Total Care** service options are designed to provide round-the-clock response and complex problem resolution through round-the-clock hardware support. *HP ProLiant DL145 G3 server—3-year, 24x7, same business day, 4-hour onsite response hardware support.*

**Deployment Services** include HP Installation services designed to take the time, risk, and worry out of the deployment of ProLiant servers. *HP ProLiant DL145 G3 server—Installation of a ProLiant DL145 G3 server.*

For a complete list of services, visit:

[www.hp.com/services/proliantservices](http://www.hp.com/services/proliantservices)

[www.hp.com/go/proliant/carepack](http://www.hp.com/go/proliant/carepack)

© Copyright 2006 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. AMD and AMD Opteron, and combinations thereof, are trademarks of Advanced Micro Devices, Inc. Linux is a U.S. registered trademark of Linus Torvalds. Microsoft and Windows are U.S. registered trademark of Microsoft Corporation.

For more information, visit [www.hp.com/servers/proliantdl145](http://www.hp.com/servers/proliantdl145)

4AA0-8885ENW, February 2007

