

HP ProLiant DL145 Generation 2 Server

Data sheet



The second-generation ProLiant DL145 Server now supports AMD Opteron™ 200 Series dual-core processors with AMD PowerNow! technology, delivering enhanced compute performance. In addition to new dual-core processors, the HP ProLiant DL145 Generation (G2) Server delivers enhancements in server design, deployment flexibility, and management functionality.

The HP ProLiant DL145 G2 Server delivers improvements in memory, I/O and storage technologies, along with a new bezel design complete with unit ID (UID) light diagnostic for easy system identification in large rack-mounted environments, a universal 1U rail kit with optional cable management arm, HP ProLiant Lights-Out 100i Remote Management, and more.

Key features and benefits

- Improved performance at an affordable price
- Reliable and flexible infrastructure compute engine for businesses of all sizes
- Complete tools for essential system management
- Proven Tier 1 vendor service and support

The ProLiant DL145 G2 Server supports AMD Opteron™ 200 Series dual-core processor technology designed for technical and clustered computing environments.



The HP ProLiant DL145 G2 Server delivers exactly the features technical and clustered computing environments require, affordably.

The HP ProLiant DL145 G2 Server is a maximum-performance two-processor/1U compute node that delivers deployment flexibility at an affordable price. This AMD Opteron™ processor-based platform is ideal for large clustered High Performance Computing (HPC) environments and general-purpose compute requirements for corporate data centers and delivers cost-effective performance for businesses of all sizes.

The industry standards-based ProLiant DL145 G2 Server offers robust price/performance. With its AMD Opteron™ processor-based architecture, support for dual-core processors, and HP ProLiant Lights-Out 100i manageability, this server is a hard-working, reliable platform that handles business and technical applications with equal ease. And it features the engineering design, practical innovation, flexibility, and cost savings you'll find in all HP ProLiant products.

Enterprise-class performance

Dual-core AMD Opteron™ 200 Series processors make the ProLiant DL145 G2 Server particularly well-suited to data-hungry applications. Industry-leading increased memory and reduced processor-to-memory latency provide the performance demanded by compute-intensive deployments such as Web hosting, Voice over IP (VoIP), and messaging. HyperTransport technology supports greater scalability and I/O throughput. Advanced AMD Opteron™ processor architecture enables a smooth transition to dual-core processors and 64-bit applications according to your timetable.

The right form factor

The ProLiant DL145 G2 Server offers a compact 1U, two-processor form factor that functions well where the ability to pack high performance into a relatively small space is a critical consideration. It consumes significantly less power, producing less heat than current server designs. And HP Factory Express allows you to customize it with memory, hard drives, NICs, high-performance interconnects, and a variety of other HP and non HP options before it's shipped to you.

Robust expansion options

The ProLiant DL145 G2 Server offers the greatest memory capacity of any 2-way, 1U, x86-based server on the market. Its chassis accommodates up to two AMD Opteron™ processors and 16 GB of 2-way interleaved PC3200 DDR error-correcting code (ECC). It features two 64-bit, 133 MHz PCI-X expansion slots with an optional PCI Express x16 expansion slot and dual-port 10/100/1000 NICs, as well as supports two SATA or SCSI disk drives and a DVD-ROM drive.

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

Enhanced fault tolerance

The ProLiant DL145 G2 Server is designed from the bottom up for increased availability. Advanced ECC memory protection detects and corrects single-bit and some multi-bit memory errors. Plus, it supports configurations with two mirrored disk drives, enabling you to continue to operate in the event of a drive failure.

Superior management capabilities

The ProLiant DL145 G2 Server features the HP Lights-Out 100i management system, which provides essential, entry-level remote management at an affordable price. With Lights-Out 100i, users gain the control to respond quickly to server issues wherever they occur and have the power to reboot a “hung” server, flash system firmware, or diagnose a POST issue without taking the time to physically visit the server. And the ProLiant DL145 G2 Server is Intelligent Platform Management Interface (IPMI) 2.0 compliant.

Support for business and technical computing

The ProLiant DL145 G2 Server is ideal for technical and clustered computing environments. Its AMD Opteron™ processor-based architecture easily handles Web hosting; streaming media engines; CAD/CAM/CAE; searching and indexing; High Performance Technical Computing (HPTC); Citrix Terminal Services; and other complex, demanding applications.

The power to perform

More enterprises trust HP ProLiant servers than any other server. The ProLiant server’s legacy of reliability and price/performance leadership has made it the worldwide market share leader.* Intelligent, innovative design makes it easy to integrate ProLiant servers into your IT environment—and makes it easy to manage them once they’re there. The HP ProLiant server family offers a wide variety of choices that fit the way you work. And, ProLiant servers provide the end-to-end value that adds up to a consistently smarter investment.

Simply put, ProLiant servers have the power to perform. They are at the heart of an IT infrastructure that is aligned with business objectives and anticipates and supports evolving business needs. ProLiant servers are a key element in HP’s vision for the Adaptive Enterprise, where business and IT are synchronized to capitalize on change.

* IDC Server Tracker, 2003.

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Technical specifications

Processors	AMD Opteron™ processor Model 246 (2.0 GHz), single core AMD Opteron™ processor Model 248 (2.2 GHz), single core AMD Opteron™ processor Model 252 (2.6 GHz), single core AMD Opteron™ processor Model 275 (2.2 GHz), dual core AMD Opteron™ processor Model 270 (2.0 GHz), dual core AMD Opteron™ processor Model 265 (1.8 GHz), dual core
Cache	1 MB L2
RAM standard/maximum	1 or 2 GB (depending upon model)/up to 16 GB
RAM type/speed	2-way interleaved PC3200 DDR
Memory protection	Advanced ECC
Hard drive capacity	Two drive bays, supporting up to 500 GB (2 x 250 GB) of SATA disk capacity or 292 GB (2 x 146 GB) of SCSI 10K disk capacity
Hard drive controller	Integrated dual-channel SATA controller; SCSI drives controlled by an optional single-channel Wide Ultra320 SCSI adapter
Form factor	1U rack optimized
Media bays	Optional DVD-ROM
Expansion slots	Two 133 MHz 64-bit PCI-X—one full length, one low profile PCI Express x16 riser available as an option
Ports	Four USB ports (2 front and 2 rear), rear serial
Network adapter	Integrated dual Broadcom 5721 10/100/1000 NICs
Operating systems supported	Microsoft® Windows® 2000 Server (32 bit) Microsoft Windows 2000 Advanced Server (32 bit) 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)
Management	HP ProLiant Lights-Out 100i Remote Management; IPMI 2.0 support (when available); health and UID status LEDs

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Environmental specifications

Altitude	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)
Temperature	Operating: 50° to 93° F (10° to 35° C) Shipping: -40° to 140° F (-40° to 60° C)
Humidity	Operating: 10% to 80% Nonoperating: 10% to 95%
Dimensions	1.70 x 16.78 x 26.75 in. (4.32 x 42.62 x 67.95 cm)
Weight	35 lb (15.87 kg)
Power supply	Rated steady-state power (per power supply): 500 W
BTU rating	2,371 BTU/hr (maximum configuration)
Voltage tolerance range	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)
Certifications and standards	ACPI 2.0 compliant PCI 2.2 compliant PXE support WOL support Microsoft Logo certifications IPMI 1.5 compliant

Ordering information

Part number	Product name	Description
390845-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 275 (2.2 GHz) , 1 MB L2 cache, 2 GB memory (36 GB SCSI model only)
390846-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 275 (2.2 GHz) , 1 MB L2 cache, 2 GB memory (80 GB SATA model with optional SCSI)
393301-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 270 (2.0 GHz) , 1 MB L2 cache, 2 GB memory (36 GB SCSI model only)
393302-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 270 (2.0 GHz) , 1 MB L2 cache, 2 GB memory (80 GB SATA model with optional SCSI)
390838-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 265 (1.8 GHz) , 1 MB L2 cache, 2 GB memory (36 GB SCSI model only)
390844-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 265 (1.8 GHz) , 1 MB L2 cache, 2 GB memory (80 GB SATA model with optional SCSI)
377888-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 252 (2.6 GHz) , 1 MB L2 cache, 2 GB memory (80 GB SATA model with optional SCSI)
377887-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 252 (2.6 GHz), 1 MB L2 cache, 2 GB memory (36 GB SCSI model only)
377886-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 248 (2.2 GHz), 1 MB L2 cache, 1 GB memory (80 GB SATA model with optional SCSI)
377885-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 248 (2.2 GHz), 1 MB L2 cache, 1 GB memory (36 GB SCSI model only)
377884-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 246 (2.0 GHz), 1 MB L2 cache, 1 GB memory (80 GB SATA model with optional SCSI)
377883-xx1*	HP ProLiant DL145 G2 Server	AMD Opteron™ processor Model 246 (2.0 GHz), 1 MB L2 cache, 1 GB memory (36 GB SCSI model only)

*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 = Euro AA = PRC

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Support

HP ProLiant DL servers offer diverse application options for companies of varying sizes and needs. By adding installation and startup services for both hardware and software, HP customers can get their ProLiant DL-based solutions up and running quickly, with minimal business disruption. To increase ROI, multivendor hardware support is offered on a 24 x 7 and 13 x 5 basis, with speedy remote problem diagnosis and resolution plus onsite support.

Customers can enhance the performance and availability of software by utilizing HP software support services for HP ProLiant Essentials, Microsoft, VMware, major Linux distributions, and open source software such as JBoss and MySQL. HP Care Pack and subscription services offer customers the expertise of HP engineers for technical software support, plus the flexibility of software updates and software licence management. Fixed-price HP Care Pack services enable you to maximize server utilization and performance with fewer resources. HP offers several combined hardware and software services designed to assist customers with resolution of more complex interoperability issues.

HP Education Services—available for HP ProLiant server systems and related software, storage, and network solutions—enable customers' IT teams to quickly and efficiently gain the skills to implement HP ProLiant DL server-based solutions.

Learn more at:

<http://h20219.www2.hp.com/services/cache/10768-0-0-225-121.aspx>.

For more information

For more information about the HP ProLiant DL145 G2 Server, visit www.hp.com/servers/proliantdl145.

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