HPE ProLiant DL580 G7 Server - Overview

Product description

What's new

Product features

Software features

Link to product specification

Link to warranty information

Link to drivers, firmware, software and manuals

Link to QuickSpecs

Product related documents

Disclaimer

Product description

	The All-New HPE ProLiant DL580 G7 combines Best-In-Class HPE performance, manageability, and reliability features with the latest Intel processor technology and is an ideal choice for Mission-Critical data center deployments and virtualization environments. DDR-3 memory expandable to 1TB, advanced I/O slot configuration and Intel Xeon 7500 series processors drive performance and scalability to new levels. The DL580 G7 packs in brand new reliability and availability features like Flash-Backed Write Cache (FBWC), redundant power supplies and fans and Intel MCA recovery.

top

What's new

Updating supported options

top

Product features

Feature	Description
Processor[1]	**Ten-Core Processors** Intel Xeon Processor E7-4870 (2.40 GHz/10-core/30MB/130 W) Intel Xeon Processor E7-4870 (2.40 GHz/10-core/30MB/130 W) Intel Xeon Processor E7-4850 (2.00 GHz/10-core/24MB/130 W) Intel Xeon Processor E7-4850 (2.00 GHz/10-core/24MB/130 W) **Eight-Core Processors** Intel Xeon Processor E7-8837 (2.67 GHz/8-core/24MB/130 W), no HT Intel Xeon Processor E7-4830 (2.13 GHz/8-core/24MB/105 W) Intel Xeon Processor E7-4820 (2.00 GHz/8-core/18MB/105 W) Intel Xeon X7560 Processor (2.26 GHz, 24MB cache, 130 W) Intel Xeon X7550 Processor (2.00 GHz, 18MB cache, 130 W) Intel Xeon L7555 Processor (1.86 GHz, 24MB cache, 95 W)

Feature	Description	
	Six-Core Processors Intel Xeon Processor E7-4807 (1.86 GHz/6-core/18MB/95 W); no HT Intel Xeon E7540 Processor (2.00 GHz, 18MB cache, 105 W) Intel Xeon E7530 Processor (1.86 GHz, 12MB cache, 105 W) Intel Xeon X7542 Processor (2.67 GHz, 18MB cache, 130 W) **Quad-Core Processors** Intel Xeon E7520 Processor (1.86 GHz, 18MB cache, 95 W)	
Cache memory	30MB (1 x 30MB) Level 3 cache[2] 24MB (1 x 24MB) Level 3 cache[3] 18MB (1 x 18MB) Level 3 cache[4] 12MB (1 x 12MB) Level 3 cache[5]	
Chipset	Industry Standard Intel 7500 Chipset NOTE: Click here for more information regarding Intel chipsets .	
Upgradeability	Upgradeable to quad (4) processors	
Memory protection	• Advanced ECC • Double Data Device Correction (DDDC) (Ready)[6] • Mirrored memory • Online spare memory	
Memory	**Type**	**PC3-10600R DIMMs (DDR3)**
	Standard (2P Models)	16GB (4 x 4GB)
	Standard (4P Model - E7540)	32GB (8 x 4GB)
	Standard (4P Models - X7560, X7550)	64GB (16 x 4GB)
	Standard (4P Models - X7560,X7550)	64GB (16 x 4GB)
	Standard (2P Models - E7-4830,E7-4807)	64GB (8 x 8GB)
	Standard (4P Models - E7-4870,E7-4850)	128GB (16 x 8GB)
	Maximum	2TB (64 x 32GB)[7]
Network controller	HPE NC375i integrated quad port multifunction gigabit server adapter[8]	
Storage controller	**Base models**	HPE Smart Array P410i/512MB FBWC Controller
	High performance models	HPE Smart Array P410i/1G FBWC Controller
Storage data protection	The Flash Backed Write Cache (FBWC) increases cache data retention capabilities from two days ofexisting battery backed write cache (BBWC) to infinite data retention. • Standard on all models • Transportable data protection	

Feature	Description		
	• Increases overall controller performance		
Internal storage devices	**Diskette drive**	None	
	Optical drive	HPE Slim SATA DVD ROM optical drive standard[9]	
	Hard drives	None ship standard	
	Hard disk DriveBackplane	Internal SAS backplane supports up to eight SFF hard disk drives	
Maximum internal storage	**Hot plug SFF SAS**	9.6TB	8 x 1.2TB
	Hot plug SFF SATA	8.0TB	8 x 1TB
	Hot plug SFF SSD	960GB	8 x 120GB
	Hot plug SFF SAS SSD	6.4TB	8 x 800GB
	Hot plug SFF SATA SSD	3.2TB	8 x 400GB
	• Integrated ATI ES1000 with 64MB embedded video SDRAM • Max resolution 1280 x 1024 x 16M color		
Graphics	• Integrated ATI ES1000 with 64MB embedded video SDRAM • Max resolution 1280 x 1024 x 16M color		
Interfaces	**Serial**	1	
	Pointing device (Mouse)	1	
	Video	1 front; 1 rear	
	Network RJ-45	4	
	Integrated Lights-Out (iLO) 3 Remote Management	1	
	Keyboard	1	
	Pointing device (Mouse)	1	
	SD slot	1	
	USB 2.0 ports	6 total: 2 front; 2 rear; 2 internal	
Form factor	• Rack (4U = 7 in), ships with quick deploy sliding rail system, an ambidextrous cable management arm and quick release levers for fast and easy serviceability and In-Rack Tool-Less access to major components.		

Feature	Description
	• Space saving form factor (4U) provides space efficiencies while providing maximum deployment flexibility.
Industry standard compliance	• ACPI 2.0. compliant • PCIE 2.0 compliant • PXE support • WOL support • Physical Address Extension (PAE) support • Microsoft logo certifications • USB 2.0 support
Intelligent manageability[110]	• HP Systems Insight Manager • SmartStart • Redundant ROM • Remote Flash ROM • Management agents • Integrated Management Log (IML) • Automatic Server Recovery-2 (ASR-2) • ROM-Based Setup Utility (RBSU) • Dynamic sector repairing (With smart array controllers) • Drive parameter tracking (With smart array controllers) • Pre-Failure warranty (Covers processors, SAS hard drives and memory) • Redundant/adaptive load balancing NIC Support • Hot spare boot

Feature	Description
Security	• Power-On password • Keyboard password • External USB port enable/disable • Network server mode • Serial interface control • Administrator's password • Removable optical drive
Power supply	• HP 1200 W Common slot platinum hot plug power supply kit[12,14] • HP 1200 W Common slot silver hot plug power supply kit[13,14] • Power supply requirement override[15]
Insight online	HP Insight online is a new capability available through the HP Support center portal for one stop, secure access to product and HP Support information specific to users IT environment. Insight online can automatically display devices remotely monitored by HP Insight remote support.
Proactive insight experience	Prevent problems with innovative, automated monitoring tools and proactive services. The HP Proactive insight experience consist of using Insight online, Insight remote support, and Proactive care support service as one integrated solution.
System fans	Four hot plug redundant fans standard (3+1)

NOTE: **1:** New Intel micro architecture with Intel virtualization technology flex migration. Industry Standard Intel 7500 Chipset with four High-Speed interconnects up to 6.4 GT/s.

2: E7-8867L, E7-4870 Processors

3: E7-8837, E7-4860, E7-4850, E7-4830, X7560, L7555 Processors

4: E7-4820, E7-4807, X7550, E7540, X7542, E7520 Processors

5: E7530 Processor

6: Intel Xeon Processor E7 series powered only.

7: Intel Xeon Processor E7 series powered only, 1TB max on 7500 series

8: Optional Dual Port 10 GbE upgrade (Replaces two 1G ports)

9: Standard on Xeon Processor 7500 series models and CTO chassis

10: There is an extra internal SSD slot available as well.

11: Upon the event of a failed processor in a Multi-Processing environment, the system will automatically reboot and use the remaining good processor(s).

Feature	Description
12: Supported on the E7-4870, E7-4850, E7-4830 and E7-4807 Models **13:** Supported on the X7560, X7550, E7540, E7530, E7520 Models **14:** Two Hot Plug Power Supplies ship standard with 2P Models. Four hot plug power supplies shipstandard with 4P models. **15:** The HPE ProLiant DL580 G7 does an inventory of the system configuration to determine whatlevel of redundancy the power supply configuration supports based on some configuration assumptions.The level of redundancy will be reported during the system power on. For planning purposes the power advisor can be used, (Click here to access the Power Advisor) whichis more accurate to determine the power requirements. Also, there is an RBSU override switch capabilitythat allows the user to override the base setting if the power advisor indicates redundancy with their configuration. NOTE: One or more of the links above will take you outside the Hewlett Packard website. HP does not control and is not responsible for information outside of the HP website.	

top

Software features

Feature	Description
Operating Systems (OS) and virtualization software support for ProLiant servers	• Microsoft Windows Server • Red Hat Enterprise Linux (RHEL) • SUSE Linux Enterprise Server (SLES) • Oracle Enterprise Linux (OEL) • Oracle Solaris • VMware • Citrix XenServer • Serviceguard for Linux A.11.20 NOTE: For more information on HP's Certified and supported ProLiant servers for OS and virtualization software and latest listing of software drivers available for the server, please visit our Support Matrix. Click here to the view Support Matrix . Click here to visit the driver download page for DL580 G7 server .

Feature	Description
HPE Insight management software	• HPE Service Pack for ProLiant • HPE Insight Foundation • HPE iLO • HPE Insight Control • HPE Insight Dynamics forProLiant
Integrated Lights-Out 3 (iLO 3) integrated on system board - OS support	• Microsoft Windows 2008 R2 • Microsoft Windows 2008 (32 bit and 64 bit) • Microsoft Windows Server 2008 Standard Edition (32 bit and 64 bit) • Microsoft Windows Server 2008 Enterprise Edition (32 bit and 64 bit) • Microsoft Windows Server 2003 and Windows Server 2003 R2, and Windows Server 2003 for Extended Systems Standard Edition, Enterprise Edition • Red Hat Enterprise Linux 5.4 (32 bit and 64 bit) • SUSE LINUX Enterprise Server 11 (32 bit and 64 bit) • SUSE LINUX Enterprise Server 10 (32 bit and 64 bit) • VMware ESX 4.0 • VMware ESX 3.5.0 • Solaris
	Client system support • Microsoft Windows 7 • Microsoft Windows XP Professional Edition • Microsoft Windows Vista Business and Ultimate Editions • Red Hat Enterprise Desktop 5.00 • SUSE Linux Enterprise Desktop 11 • SUSE Linux Enterprise Desktop 10
	Client browser support • Microsoft Internet Explorer 8 • Microsoft Internet Explorer 7 • Microsoft Internet Explorer 6

Feature	Description
	• Firefox 3.5 (On supported Windows and Linux systems) • Firefox 3.0 (On supported Windows and Linux systems)

top

Link to product specification

Click here to view the product specification page for HPE ProLiant DL580 G7 Server .

top

Link to warranty information

Click here to check the warranty status .

Click here for detailed information regarding worldwide limited warranty and technical support .

top

Link to drivers, firmware, software and manuals

Click here to view the manuals for HPE ProLiant DL580 G7 Server .

top

Link to QuickSpecs

Information for this Overview is taken from the product QuickSpecs. To access the complete QuickSpecs for this product, select the desired link from the following list:

- Click here to access the HPE ProLiant DL580 G7 server Worldwide QuickSpecs in html format .
- Click here to access the HPE ProLiant DL580 G7 server Worldwide QuickSpecs in pdf format .

top

Product related documents

Click here to view the list of product related documents .

top

Disclaimer

One or more of the links above will take you outside the Hewlett Packard Enterprise Website, Hewlett Packard Enterprise does not control and is not responsible for information outside of the Hewlett Packard Enterprise Website.

top

©Copyright 2026 Hewlett Packard Enterprise Development LP

Hewlett Packard Enterprise Development shall not be liable for technical or editorial errors or omissions contained herein. The information provided is provided "as is" without warranty of any kind. To the extent permitted by law,

neither HPE nor its affiliates, subcontractors or suppliers will be liable for incidental, special or consequential damages including downtime cost; lost profits; damages relating to the procurement of substitute products or services; or damages for loss of data, or software restoration. The information in this document is subject to change without notice. Hewlett Packard Enterprise Development and the names of Hewlett Packard Enterprise Development products referenced herein are trademarks of Hewlett Packard Enterprise Development in the United States and other countries. Other product and company names mentioned herein may be trademarks of their respective owners.