

Overview

HPE ProLiant DX2000 Chassis

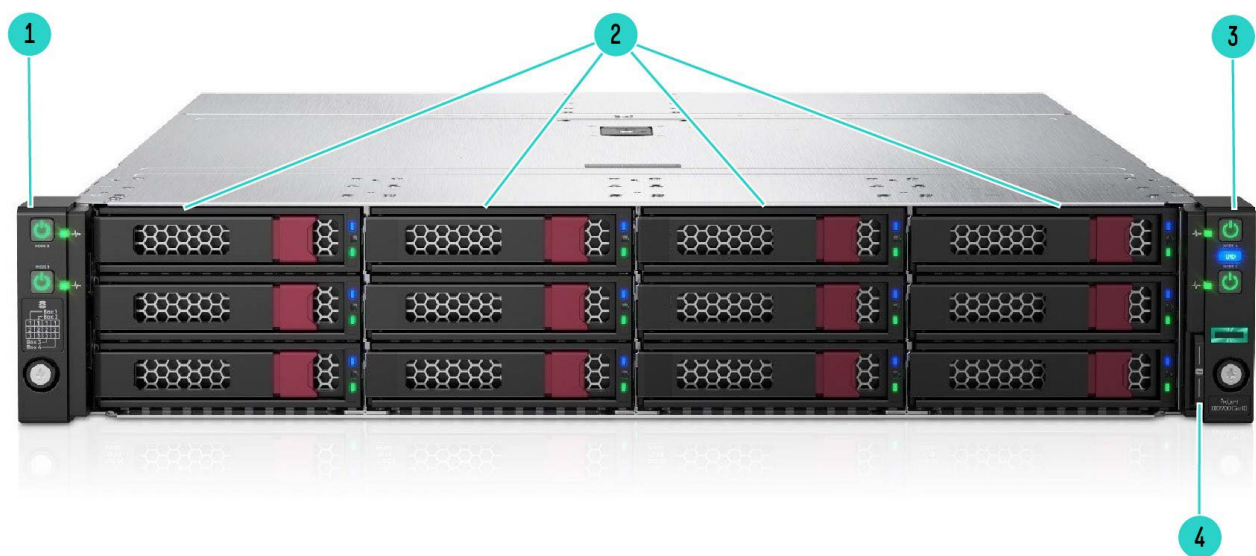
The HPE ProLiant DX2000 Chassis along with Nutanix provide a global partnership to deliver hyper-converged solutions in an on premise appliance or through the HPE Greenlake consumption model.. This offering will leverage Nutanix's free AHV hypervisor and Nutanix Enterprise Cloud software to provide customers with a pre-integrated and optimized solution that dramatically lowers total cost of ownership and accelerates operational productivity.

The HPE ProLiant DX2000 Chassis System is a dense, multi-server platform that packs incredible performance and workload flexibility into a small datacenter space, while delivering the efficiencies of a shared infrastructure. It is designed to provide a bridge to scale-out architecture for traditional data centers, so enterprise and SME customers can achieve the space-saving value of density-optimized infrastructure in a cost-effective and non-disruptive manner.

The HPE ProLiant DX2000 Chassis System offers the configuration flexibility to support a variety of workloads, from remote site systems to large HPC clusters and everything in between. And it can be deployed cost-effectively starting with a single 2U, shared infrastructure chassis to meet the configuration needs of a wide variety of scale-out workloads.

The HPE ProLiant DX2000 Chassis System is a density-optimized, 2U shared infrastructure chassis for up to 4 ProLiant DX170r Gen10 and up to 2 ProLiant DX190r Gen10 independent, hot-plug servers with all the traditional data center attributes – standard racks and cabling and rear-aisle serviceability access. A 42U rack fits up to 20 ProLiant DX2000 series chassis accommodating up to 80 servers per rack.

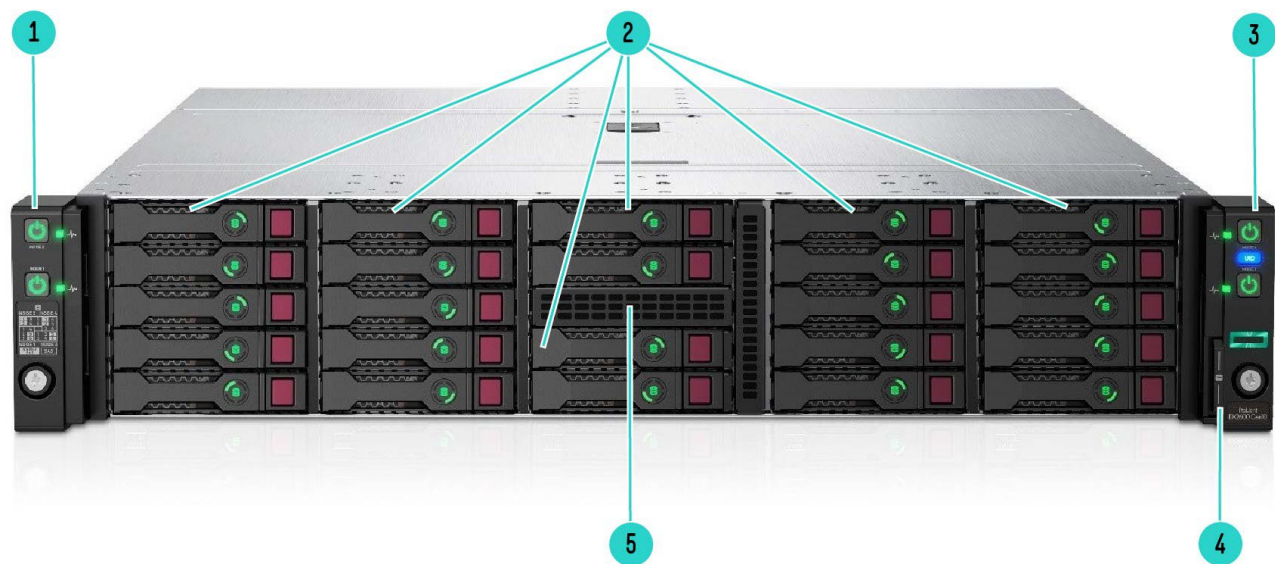
The HPE ProLiant DX2000 Chassis comes pre-configured with select options that maximize performance under Nutanix workloads. With HPE ProLiant DX2000 Chassis System servers there is flexibility to tailor the system to the precise needs of each workload with compute and flexible I/O and storage options.



HPE ProLiant DX2200 12 LFF Gen10 CTO Chassis – 12 LFF

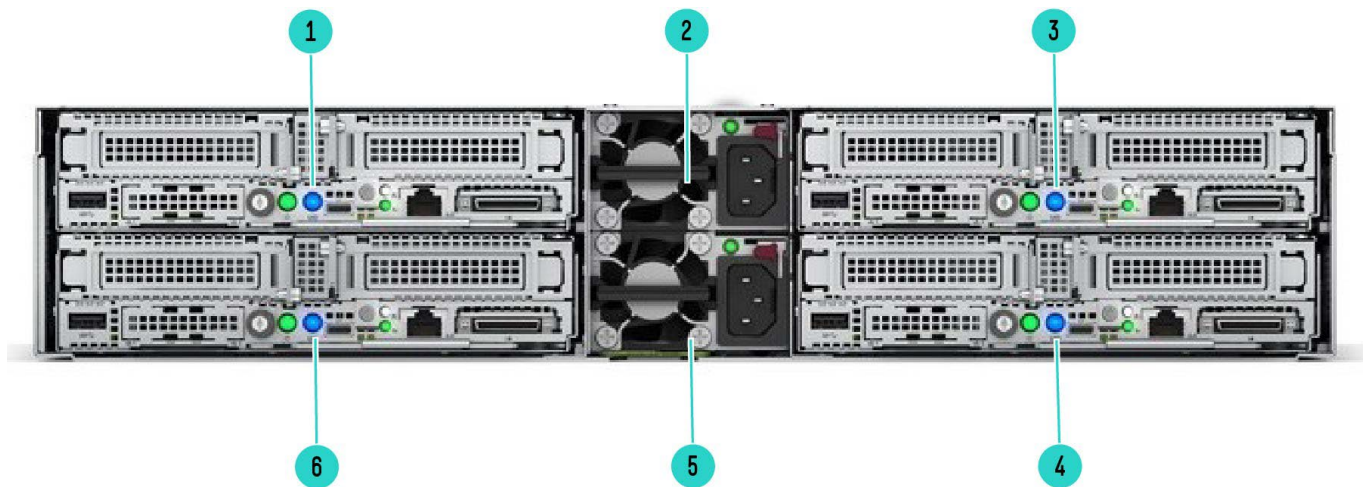
Item	Description	Item	Description
1	Left bezel ear	3	Right bezel ear
2	Low-profile LFF hot-plug drives	4	Chassis serial label pull tab

Overview



HPE ProLiant DX2600 24 SFF-Prem Gen10 CTO Chassis – 24 SFF

Item	Description	Item	Description
1	Left bezel ear	4	Chassis serial label pull tab
2	SFF hot-plug drives	5	Non-removable bezel blank
3	Right bezel ear		

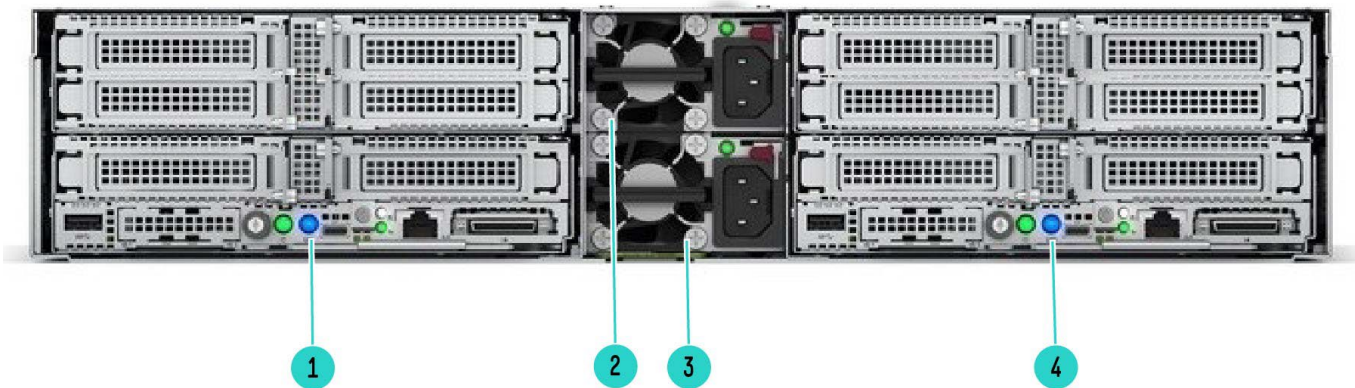


Chassis Rear panel Components / Four 1U Servers

Item	Description	Item	Description
1	Server 4	4	Server 1
2	Power supply 2	5	Power Supply 1
3	Server 2	6	Server 3



Overview



Chassis Rear panel Components / Two 2U Servers

Item	Description	Item	Description
1	Server 2	3	Power Supply 1
2	Power Supply 2	4	Server 1



Standard Features

Chassis

There are 2 chassis options with different storage configurations

- HPE ProLiant DX2200 12 LFF Gen10 CTO Chassis – allocated equally across server nodes
 - 12 LFF hot-pluggable SAS/SATA HDD/SSD (Direct Attach)
- HPE ProLiant DX2600 24 SFF-Prem Gen10 CTO Chassis – allocated equally across server nodes
 - 24 SFF hot-pluggable SAS/SATA HDD/SSD

Each HPE ProLiant DX2000 Chassis is built with the following:

- Four server slots for a chassis
 - Two (2) HPE 1800W-2200W Flex Slot Platinum Hot Plug Power Supplies
 - Four (4) single rotor fans standard plus an additional 4 fans for redundancy
 - HPE Security Bezel
 - HPE Tech Care Next Business Day Three-year Support Service
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Server Tray Blank Kit

A chassis requires that four (4) server tray slots be populated with either an HPE ProLiant DX170r Gen10, DX190r Gen10 server or an HPE ProLiant DX2000 Chassis Server Node Blank Kit.

HPE ProLiant DX2000 Chassis

The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. For maximum cooling, HPE racks are recommended to allow these racks to be fully loaded with servers using the latest processors. For detail information please see HPE ProLiant DX2000 Chassis System User Guide.

Notes:

- If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment.
 - Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels will result in improper cooling that can lead to thermal damage.
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Service and Support

HPE Services

No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

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Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

<https://www.hpe.com/services/consulting>

HPE Managed Services

HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

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Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

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HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/completecure>

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>



Service and Support

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:

<https://www.hpe.com/services/lifecycle>

For a list of the most frequently purchased services using service credits, see the **HPE Service Credits Menu**

Other Related Services from HPE Services:

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

<https://www.hpe.com/services/training>

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

Parts and Materials

HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at <https://ssc.hpe.com/portal/site/ssc/>



Service and Support

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.

<https://support.hpe.com/hpesc/public/home/signin>

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"

<https://www.hpe.com/us/en/contact-hpe.html>

For more information

<http://www.hpe.com/services>



Configuration Information

Step 1: Choose a Chassis

HPE ProLiant DX2600 Gen10 24SFF Premium Configure-to-order Chassis	P17974-B21
HPE ProLiant DX2200 Gen10 12LFF Configure-to-order Chassis	P17975-B21

Options included with each HPE ProLiant DX2000 Chassis

- Two (2) HPE 1800W-2200W Flex Slot Platinum Hot Plug Power Supplies
- Redundant Fan Module adding 4 fans for redundancy
- HPE 2U Security Bezel
- HPE Tech Care Next Business Day Three-year Support Service

Step 2: Choose cooling options

HPE Cooling Options

HPE DX2000 Gen10 Server Node FIO Blank Kit	P17979-B21
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Notes: Required for any non-populated slots in the chassis to prevent thermal related issues

Step 3: Choose cooling options

HPE Rail Kits

HPE 2U Shelf-Mount Adjustable Rail Kit	822731-B21
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Notes: Hewlett Packard Enterprise recommends that a minimum of two people are required for all rack installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

Step 4: Choose Base configuration

Server Trays

HPE ProLiant DX170r Gen10 1U Node Configure-to-order Server	P17977-B21
HPE ProLiant DX190r Gen10 2U Node Configure-to-order Server	P17978-B21

Notes: Up to 4 single half width server trays (XL170r Gen10) can be added to the HPE ProLiant DX 2000 Chassis. Up to 2 half width 2 U height server trays (XL190 Gen10) can be added to the HPE ProLiant DX2000 Chassis. 1U and 2U server trays can not be mixed together.



Core Options

Power Cords

HPE C15-C14 IN 250V 10Amp 2.5m Black Jumper Cord	R1C67A
HPE C15-C14 IN 250V 10Amp 1m Black Jumper Cord	R1C68A

Power Cords – US

HPE C15 - NEMA 6-20P 250V 15Amp Black 2.5m US Power Cord	Q7F42A
HPE C15 US 250V 10Amp 2.5m Black Jumper Cord	Q7F57A
HPE C15 US 250V 10Amp 0.76m Black Jumper Cord	Q7F59A
HPE C15 US 250V 10Amp 1m Black Jumper Cord	Q7F61A

Power Cords – CN

HPE C15 CN 250V 10Amp 2.5m Black Power Cord	Q7F53A
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Power Cords – EU

HPE C15 EU 250V 10Amp 2.5m Black Power Cord	Q7F45A
HPE C15 EU 250V 10Amp 2.5m Black Jumper Cord	Q7F58A
HPE C15 EU 250V 10Amp 0.76m Black Jumper Cord	Q7F60A
HPE C15 EU 250V 10Amp 1m Black Jumper Cord	Q7F62A

Power Cords – UK

HPE C15 UK 250V 10Amp 2.5m Black Power Cord	Q7F46A
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Transceivers

HPE DX 10Gb SFP+ SR FIO Transceiver	P18412-B21
HPE DX 25Gb SFP28 SR 100m FIO Transceiver	P18413-B21

HPE Support Services

HPE 3 Year Next Business Day with Defective Media Retention DX170r Gen10 Hardware Service	HN4X5E
HPE 3 Year 24x7 DX170r Gen10 Hardware Service	HN4X6E
HPE 3 Year 24x7 with Defective Media Retention DX170r Gen10 Hardware Service	HN4X7E
HPE 5 Year Next Business Day DX170r Gen10 Hardware Service	HN4X8E
HPE 5 Year Next Business Day with Defective Media Retention DX170r Gen10 Hardware Service	HN4X9E
HPE 5 Year 24x7 DX170r Gen10 Hardware Service	HN4Y0E
HPE 5 Year 24x7 with Defective Media Retention DX170r Gen10 Hardware Service	HN4Y1E



Technical Specifications

HPE ProLiant DX2200 12 LFF Gen10 Chassis – 12 LFF		
Dimensions	Height	3.45 in (8.76 cm)
	Width	17.64 in (44.80 cm)
	Depth	34.62 in (87.93 cm)
Shipping Dimensions	Height	12.5 in (31.75 cm)
	Width	23.63 in (60.02 cm)
	Depth	39.38 in (100.01 cm)
Chassis Weight	Empty	28.88 lb (13.1 kg)
Max Enclosure Weight	Approximate	122.19 lb (46.70 kg)
Temperature Range	Operating	50° to 95° F (10° to 35° C)
	Non-Operating	-22° to 140° F (-30° to 60° C)
Relative Humidity	Operating	Minimum to be higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity
	Non-Operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Notes: Operating temperature has an altitude derating of 1.8° F (1° C) per 1,000 ft (304.8 m). No direct sunlight. Upper operating limit is 10,000 ft (3,048 m) or 70Kpa/10.1 psia. Upper non-operating limit is 30,000 ft (9,144 m) or 30.3 KPa/4.4 psia. Storage maximum humidity of 95% is based on a maximum temperature of 113° F (45° C). Altitude maximum for storage is 70 KPa.		
Acoustic Noise	Notes: Please see QuickSpecs for HPE ProLiant DX170r and DX190r servers	

HPE ProLiant DX2600 24 SFF Gen10 Chassis – 24 SFF		
Dimensions	Height	3.45 in (8.76 cm)
	Width	17.64 in (44.80 cm)
	Depth	33.02 in (83.87 cm)
Shipping Dimensions	Height	12.5 in (31.75 cm)
	Width	23.63 in (60.02 cm)
	Depth	37.76 in (95.9 cm)
Chassis Weight	Empty	28.00 lb (12.7 kg)
Max Enclosure Weight	Approximate	103.27 lb (46.84 kg)
Temperature Range	Operating	50° to 95° F (10° to 35° C)
	Non-Operating	-22° to 140° F (-30° to 60° C)
Relative Humidity	Operating	Minimum to be higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity
	Non-Operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
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Acoustic Noise	Notes: Please see QuickSpecs for HPE ProLiant DX170r and DX190r servers	



Technical Specifications

Environmental-friendly Products and Approach – End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life **product return, trade-in, and recycling programs**, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE Directive (2012/19/EU) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the **Hewlett Packard Enterprise web site**.

These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

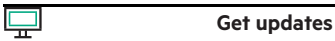
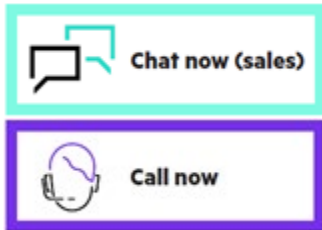


Summary of Changes

Date	Version History	Action	Description of Change
20-Nov-2023	Version 3	Changed	HPE Services Rebranding
15-Nov-2021	Version 2	Changed	Service and Support section was updated.
30-Jul-2019	Version 1	New	New QuickSpecs

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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less

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