

# HPE ProLiant DL385 Gen10 Plus v2 7252 3.1GHz 8-core 1P 32GB-R 8SFF 800W PS Server (P58451-B21)

ProLiant DL300 Servers



## What's new

- Powered by the 3rd Generation AMD EPYC™ processors with more compute performance compared to the previous generation.
- Enhanced storage management with Tri-mode storage controllers supporting NVMe/SAS/SATA drives.
- Supports 3rd Generation AMD EPYC™ processors with 3D V-cache, providing 768 MB of L3 cache per processor.

## Overview

Do you need a versatile server with built-in security and flexibility that addresses key applications such as Machine Learning or Deep Learning and Big Data Analytics?

Building on HPE ProLiant as the intelligent foundation for hybrid cloud, the HPE ProLiant DL385 Gen10 Plus v2 server offers the 3rd Generation AMD EPYC™ Processors, delivering more performance compared to the prior generation. With up to 128 cores (per 2-socket configuration), 32 DIMMs for memory up to 3200 MHz, the HPE ProLiant DL385 Gen10 Plus v2 server delivers low cost virtual machines (VMs) with increased security. Equipped with PCIe Gen4 capabilities, the HPE ProLiant DL385 Gen10 Plus v2 server offers improved data transfer rates and higher networking speeds. Combined with supportability for graphic accelerators, a more advanced storage RAID solution and storage density, the HPE ProLiant

DL385 Gen10 Plus v2 server is the ideal choice for ML/DL and Big Data Analytics.

## Features

### Workload Optimization

The HPE ProLiant DL385 Gen10 Plus v2 server supports up to 8 single wide or 3 double wide (active/passive) GPUs to accelerate graphic intense workloads.

Harness major compute power and support up to two of the 3rd Generation AMD EPYC™ processors with up to 64-core 280W.

Tri-mode storage controllers enhance storage management coupled with an advanced storage RAID solution and storage density.

It provides real-time operational feedback on server performance plus recommendations for fine-tuning BIOS settings to customize for changing business needs.

### 360 Degree Security

The HPE ProLiant DL385 Gen10 Plus v2 server is tied into the silicon root of trust and the AMD Secure Processor, a dedicated security processor embedded in the AMD EPYC system on a chip (SoC) to manage secure boot, memory encryption, and secure virtualization.

HPE ProLiant security begins with the corruption-free manufacture of the server and auditing the integrity of every component – hardware and firmware – to provide verification that the server begins its lifecycle through an uncompromised supply chain.

HPE ProLiant servers provide rapid detection of a security-compromised server, even to the point of not allowing it to boot, identifies and contains malicious code, and protects healthy servers.

HPE ProLiant servers provide automated recovery from a security event, including restoration of validated firmware, and facilitating recovery of operating system, application and data connections, providing the fastest path to bring a server back online and into normal operations.

When it's time to retire or repurpose an HPE ProLiant server, one-button secure erase speeds and simplifies the complete removal of passwords, configuration settings and data, preventing inadvertent access to previously secured information.

### Intelligent Automation

The HPE ProLiant DL385 Gen10 Plus v2 server simplifies and automates management tasks, establishing a solid foundation for an open, hybrid cloud platform enabled by composability.

Embedded in HPE servers, HPE Integrated Lights-Out (iLO) is an exclusive core intelligence that monitors server status, providing the means for reporting, ongoing management, service alerting, and local or remote management to quickly identify and resolve issues.

Automation and software-defined control reduces time spent on provisioning and maintenance, and reduces deployment time.

### Delivered as-a Service

The HPE ProLiant DL385 Gen10 Plus v2 server is supported by HPE GreenLake to simplify IT infrastructure management across your entire hybrid estate. With 24x7 monitoring and management, our experts do the heavy lifting to manage your environment with services built into consumption-based solutions.

Rapidly deploy a broad portfolio of cloud services such as machine learning operations (ML Ops), containers, storage, compute, virtual machines (VMs), data protection, and more. Workload-optimized, preconfigured solutions can be



delivered to your facility quickly, decreasing your downtime.

Hewlett Packard Enterprise provides customers choice in how they acquire and consume IT beyond traditional financing and leasing, offering options that free trapped capital, accelerate infrastructure updates, and provide for on-premises pay-per-use consumption with HPE GreenLake.

## Technical specifications

## HPE ProLiant DL385 Gen10 Plus v2 7252 3.1GHz 8-core 1P 32GB-R 8SFF 800W PS Server

<b>Product Number</b>	P58451-B21
<b>Processor Name</b>	AMD EPYC™ 7252 (8 core, 3.1 Ghz, 64 MB, 120W)
<b>Processor core available</b>	8 core
<b>Processor cache</b>	64 MB L3
<b>Processor speed</b>	3.1 GHz
<b>Power supply type</b>	1x 800W HPE FlexSlot Power Supply
<b>Expansion slots</b>	8 maximum, for detailed descriptions refer to the QuickSpecs
<b>Memory, standard</b>	32 GB (1x 32 GB) RDIMMs
<b>Memory type</b>	HPE DDR4 Smart Memory
<b>Included hard drives</b>	None ship standard, 8 SFF supported
<b>Optical drive type</b>	Optional, None ship standard
<b>System fan features</b>	4 standard fans
<b>Network controller</b>	HPE 10GbE 2-port OCP3 Adapter plus choice of OCP or standup card
<b>Storage controller</b>	Broadcom MR416i-a Cntrl for HPE Gen10+
<b>Product Dimensions</b>	8.73 x 44.54 x 74.9 cm
<b>Weight</b>	15.1 kg minimum
<b>Infrastructure management</b>	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download) HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, and HPE OneView Advanced (require licenses)
<b>Warranty</b>	3/3/3 - Server Warranty includes three years of parts, three years of labor, three years of on-site support coverage. Additional information regarding worldwide limited warranty and technical support is available at: <a href="http://h20564.www2.hp.com/hpsc/wc/public/home">http://h20564.www2.hp.com/hpsc/wc/public/home</a> . Additional HPE support and service coverage for your product can be purchased locally. For information on availability of service upgrades and the cost for these service upgrades, refer to the HPE website at <a href="http://www.hp.com/support">http://www.hp.com/support</a> .
<b>Drive supported</b>	None ship standard, 8 SFF supported
<b>Processor number</b>	1 processor included
<b>Form factor</b>	2U



For additional technical information, available models and options, please reference the [QuickSpecs](#)

## HPE Pointnext Services

[HPE Pointnext Services](#) brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

### Operational Services from HPE Pointnext Services

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

[HPE Pointnext Complete Care](#) is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

**HPE Integration and Performance Services** help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- GreenLake Management Services
- Retire and sanitize
- IT Training and personal development

### Other related services

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

**Defective Media Retention** is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

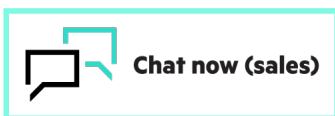
## HPE GreenLake

[HPE GreenLake](#) is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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.

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