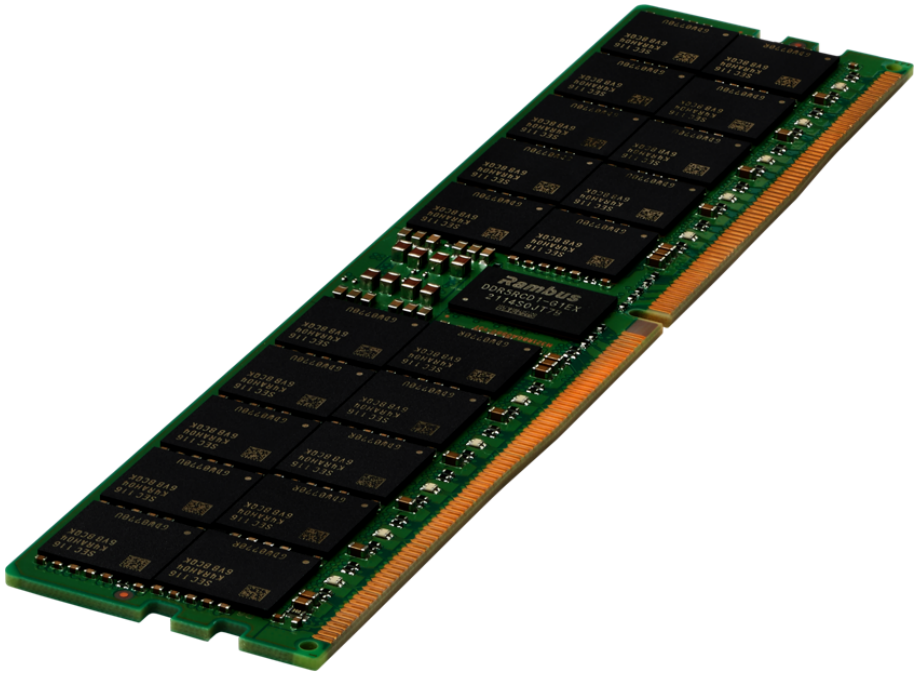
HPE DDR5 Smart Memory

HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit (P50311-B21)



What's new

- HPE 64 GB (1x 64 GB) Dual Rank x4 DDR5-8000 CAS-64-64-64 EC8 Registered Smart Memory Kit
- HPE 96 GB (1x 96 GB) Dual Rank x4 DDR5-8000 CAS-64-64-64 EC8 Registered Smart Memory Kit
- HPE 128 GB (1x 128 GB) Dual Rank x4 DDR5-8000 CAS-64-64-64 EC8 Registered Smart Memory Kit

Overview

Has your server been configured with the memory it needs to perform as its role expands over time?

HPE DDR5 Smart Memory is designed for small to large enterprise customers with a significant need for performance and capacity, along with a desire to manage total cost of ownership. HPE DDR5 Smart Memory enables total server memory optimization, runs at top throughput speed, and is among the most power-efficient memory available. In addition to performance and efficiency, HPE DDR5 Smart Memory also delivers on reliability. Only the highest-quality DRAM modules are selected from top suppliers. Now more than ever, DRAM quality is critical, as data center trends such as server virtualization, cloud computing, and the use of large database applications have increased the need for higher-capacity memory with greater up-time. HPE DDR5 Smart Memory undergoes rigorous qualification and testing processes that unlock memory performance features available only with HPE

servers.

Features

High performance

HPE DDR5 Smart Memory 8000 MT/s provides improvements in bandwidth in comparison to DDR4 5600 MT/s memory modules.

HPE MRDIMM technology further increases memory bandwidth and throughput, enabling maximum performance for next-generation compute platforms.

High reliability

Hewlett Packard Enterprise tests and qualifies HPE DDR5 Smart Memory modules on all HPE server platforms to deliver the highest level of signal integrity.

HPE DDR5 Smart Memory prevents unnecessary DIMM replacement and reduces server downtime with advanced memory error detection technology.

HPE uses the highest quality materials for its DDR5 server memory, reducing issues that may affect signal integrity and increasing system reliability.

HPE provides server memory that performs above industry standards, enabling customers to increase the performance of their servers without having to increase the amount of memory purchased.

MRDIMM is DDR5 memory optimized for bandwidth. It uses multiplexing technology to deliver data from two ranks simultaneously, providing significantly higher memory throughput to keep next-generation high-core-count CPUs fully utilized.

Technical specifications	HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit
Product Number	P50311-B21
Memory type	DDR5
Capacity	32 GB
DIMM rank	Dual Rank
DIMM native speed	4800 MT/s
DIMM type	Registered Smart Memory (RDIMM)
Platform supported	HPE Compute Mainstream Platforms, see QuickSpecs for more information
Shipping dimensions	8.89 x 19.05 x 1.91 cm
Shipping weight	0.04 kg
Voltage	1.1 V

HPE Services

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

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. 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

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

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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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.

Image may differ from the actual product.

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