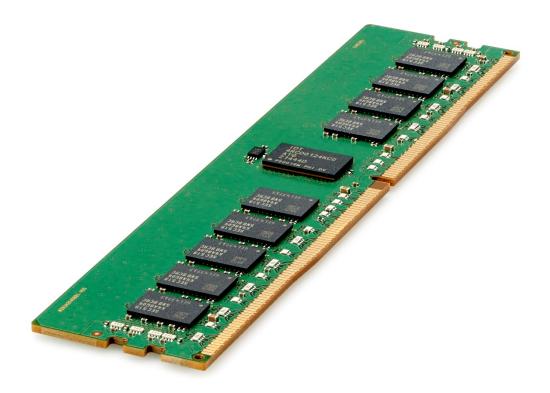
QuickSpecs

Overview

HPE DDR4 SmartMemory

HPE DDR4 SmartMemory delivers great performance, reliability, and efficiency. Our large selection of server memory solutions provides the compatibility, capacity and bandwidth you need to productively manage your expanding workload with HPE ProLiant Gen9 and Gen10 servers, Apollo family servers, Synergy systems, and Blade systems.

As workloads grow and data center trends such as server virtualization, cloud computing, and the use of large database applications increase the need for higher-capacity memory with greater uptime, the quality and reliability of DRAM become ever more important. HPE SmartMemory goes through additional rigorous qualification and testing processes that unlock extended memory performance features available only with HPE Gen9 and Gen10 servers. This extensive testing ensures that HPE server memory is completely compatible with and optimized for HPE servers.



What's New

HPE SmartMemory 2933 MT/s memory supported on HPE Gen10 Intel servers



Models

Registered Memory Kits

Registered Memory Kits	
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2400 CAS-17-17-17 Registered Smart Memory Kit	P00423-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815097-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815098-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	838081-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	835955-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	838089-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815100-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	838083-B21
HPE 32GB 2Rx4 PC4-2666V-R Kit	P05590-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	P05592-B21
HPE 8GB (1x8GB) Single Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00918-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00920-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00922-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00924-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00930-B21
Load-reduced Memory Kits	

Load-reduced Memory Kits

HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit 805353-B21 805358-B21 HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit HPE 128GB (1x128GB) Octal Rank x4 DDR4-2400 CAS-20-18-18 Load Reduced Memory Kit 809208-B21 HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit 815101-B21 HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19 Load Reduced Smart Memory Kit 838085-B21 HPE 128GB (1x128GB) Octal Rank x4 DDR4-2666 CAS-22-19-19 3DS Load Reduced Memory Kit 815102-B21 HPE 128GB (1x128GB) Octal Rank x4 DDR4-2666 CAS-22-19-19 3DS Load Reduced Smart Memory Kit 838087-B21 HPE 64GB (1x64GB) Quad Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Smart Memory Kit P00926-B21 HPE 128GB (1x128GB) Octal Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Smart Memory Kit P11040-B21 HPE 128GB (1x128GB) Octal Rank x4 DDR4-2933 CAS-24-21-21 3DS Load Reduced Smart Memory Kit P00928-B21 **NOTE:** Memory DIMM availability for a specific server platform is dependent upon completion of certification testing.

Fast Fault Tolerance Factory Setting

HPE Smart Memory Fast Fault Tolerance FIO Setting NOTE: Select this part number to enable HPE Fast Fault Tolerance, which allows server memory to run at the

875293-B21

resiliency of double device data correction (DDDC), but with significantly higher performance. HPE Fast Fault Tolerance is available on all HPE Gen10 servers with an Intel® central processing unit.

What is HPE SmartMemory?	HPE SmartMemory uniquely optimizes memory performance on the HPE ProLiant Rack and Tower servers, Apollo family servers, Blade systems, and Synergy systems. Authenticated HPE SmartMemory supports extended memory performance in the competitive landscape and provides customers with service enhancement through HPE Active Health Systems and other HPE proprietary software.
Quality and Performance	HPE SmartMemory undergoes a rigorous qualification process to provide customers with the highest server memory quality options. Its performance is tested and optimized for HPE servers, supporting unique features only available with HPE servers and systems. In addition, it enhances memory throughput up to 23% and achieves an improvement in latency of up to 25%.
HPE Active Healt System	h HPE SmartMemory works in conjunction with the HPE Active Health System which monitors changes to the server hardware configuration to enable lifecycle monitoring of memory health status. Having insight into memory-related service events will shorten problem diagnosis and deliver rapid resolutions if and when failures occur. Whereas the pre-failure alert simply notifies the administrator of an impending failure, HPE SmartMemory can provide rich insight into memory-related events like multi-bit errors or configuration issues.
Support Matrix	Please visit the following URL for the latest list of supported servers: http://www.hpe.com/servers/servermemoryconfigurator
Other Resources	For the latest updates on HPE Server Options, visit: http://www.hpe.com/us/en/servers/memory.html
	For more information on HPE Persistent Memory options, visit: https://www.hpe.com/us/en/servers/persistent-memory.html

Service and Support

HPE SupportHPE Support Center offers personalized online support portal with access to information, tools and experts to
support HPE business products. Submit support cases online, chat with HPE experts, access support resources
or collaborate with peers. Learn more: https://www.hpe.com/us/en/services/it-support

The HPE Support Center mobile app helps you resolve issues yourself or quickly connect to an agent for live support. Now you can get access to personalize IT support anywhere, anytime. NOTE: The HPE Support Center mobile app is subject to local availability

Parts and
materialsHewlett Packard Enterprise 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 quickspecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to disk or eligible solid state drive/flash drives replaced by Hewlett Packard Enterprise due to malfunction.

Warranty / Service For ProLiant servers and storage systems, this service covers HPE branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, tower UPS products, and external monitors up to 22 inches and tower UPS products. These items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been exceeded. Coverage of the UPS battery is not included; standard warranty terms and conditions apply.

For details on the HPE Server Options limited warranty, visit: https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-c00383139

 General Memory
 For details on the memory population rules for HPE Intel Xeon Gen10 servers, visit:

 Population Rules
 http://www.hpe.com/docs/memory-population-rules

 and Guidelines:
 For details on the memory population rules for HPE AMD Gen10 servers, visit:

http://www.hpe.com/docs/amd-population-rules

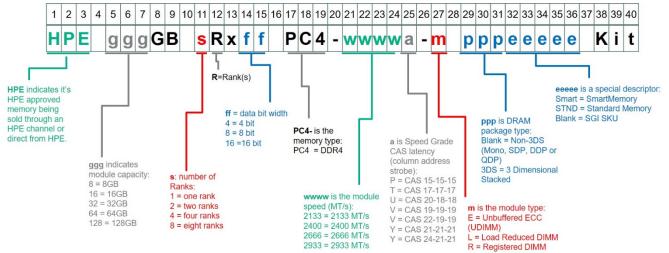
Technical Specifications

Memory Speed by Processor Model

For details on HPE server memory speeds, visit: http://www.hpe.com/docs/memory-speed-table

Memory options part number decoder

Short Name



Summary of Changes

Date	Version History	Action	Description of Change
02-Apr-2019	Version 17	Changed	Technical Specifications section was updated
17-Dec-2018	Version 16	Changed	Models section was updated.
		Added	SKU added in Models section: P00423-B21, 838089-B21.
		Removed	SKU deleted in Models section: 836220-B21
01-Oct-2018	Version 15	Changed	Models section was updated.
06-Aug-2018	Version 14	Changed	Models, Standard Features, and Service and Support sections were updated.
5		Added	SKUs were added in Models sections:
			P05592-B21.
		Removed	Obsolete SKUs were deleted:
			838079-B21, 838089-B21, P05580-B21, 838083-B21, 726722-B21.
04-Jun-2018 Version 13	Changed	Overview, Models, Standard Features, Service and Support sections were	
		_	updated.
		Added	SKUs added in Models section:
			726718-B21, 726719-B21, 728629-B21, 805347-B21, 836220-B21,
			815097-B21, 876181-B21, 838079-B21, P05586-B21, 838081-B21,
			838089-B21, P05588-B21, 838083-B21, P05590-B21, 726722-B21,
			726724-B21, 805353-B21, 809208-B21, 815102-B21, 838085-B21,
			838087-B21.
05-Mar-2018	Version 12	Changed	Obsolete SKUs deleted:
			726717-B21, 759934-B21, 726720-B21.
04-Dec-2017	Version 11	Changed	Overview, Models, Standard Features, and Service and Support sections were
			updated.
-		Added	SKUs added in Models section.
25-Sep-2017	Version 10	Changed	Overview, Standard Features, Platform Information, Service and Support, and
			Technical Specifications section were updated.
		Removed	Obsolete SKU was deleted: 792278-B21
11-Jul-2017	Version 9	Changed	Overview, Standard Features, Platform Information, Service and Support, and
		5	Technical Specifications section were updated.
		Added	SKUs added in Platform Information section:
			815097-B21, 876181-B21, 815098-B21, 835955-B21, 815100-B21,
			815101-B21, 815102-B21.
13-Feb-2017	Version 8	Changed	Models section was updated.
06-Jun-2016	Version 7	Changed	Overview, Models, Compatibility, Standard Features, Service and Support, and
			Technical Specifications sections were updated.
			Memory Speed Table, Ground rules updates, Tech Term edits
31-Mar-2016	Version 6	Changed	Overview, Overview, Standard Features, Service and Support, and Technical
			Specifications
		Added	SKU added in Models section:
			805347-B21, 805349-B21, 836220-B21, 805351-B21, 805353-B21,
			805358-B21, 726718-B21, 726719-B21, 728629-B21, 726722-B21,
			809208-B21
01-Jun-2015	Version 5	Added	SKU added in Models section: 726724-B21
70.14		Changed	What 's new, Technical Specifications and models sections were updated.
30-Mar-2015	Version 4	Changed	Overview, Service and Support and Technical Specifications sections were updated
		Added	SKU added on Models:
			728629-B21
16-Jan-2015	Version 3	Changed	Performance section on Standard Features was updated
01-Dec-2014	Version 2	Changed	Overview and Technical Specifications sections were updated
01 DCC 2014		Added	SKUs added to Models:
	/ uuuu	726717-B21, 759934-B21, 726720-B21, 792278-	
			120111 DZ1, 137734 DZ1, 120120 DZ1, 172210-

Summary of Changes

09-Sep-2014	Version 1	New	QuickSpecs created
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