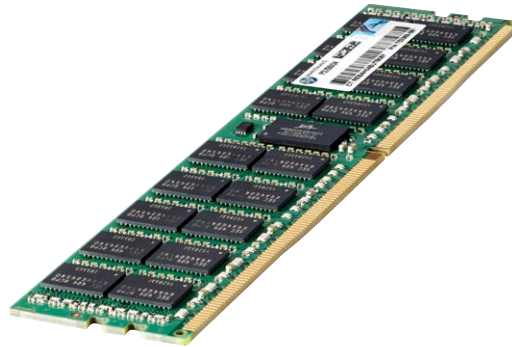# HP DDR4 SmartMemory

HP qualified memory, purpose built for HP ProLiant servers

Get higher performance and more power savings and efficiency with genuine, HP-qualified memory, built to work with HP ProLiant servers and capable of enhanced support through HP Active Health System.

An HP Qualified Option

HP Qualified Options mean every genuine HP DIMM has been through our rigorous qualification process, which extends beyond standard industry practice, to help ensure compatibility, performance, and reliability. For the latest news, videos, podcasts, and updates visit **hp.com/go/hpqo**.

Choose the right memory

Choosing the right memory is the key to getting the utmost reliability, performance, and faster return on your IT investment. As one of the largest DRAM buyers, HP chooses only the highest quality memory. HP SmartMemory is performance tested and tuned on HP ProLiant servers using proprietary software that simulates extreme operating environments and conditions.

Enjoy reliability, performance, and manageability

HP SmartMemory is a unique technology introduced for HP ProLiant Gen8 and future servers, and unlike other third-party memory, HP SmartMemory authenticates whether memory has passed HP's rigorous qualification and test process, and provides you with the highest quality, genuine HP SmartMemory.

More importantly, verification of HP SmartMemory unlocks certain performance and high efficiency features optimized for HP ProLiant servers. In addition, HP SmartMemory provides future enhanced support through HP Active Health System and manageability software.

Key features and benefits

HP SmartMemory is the ideal tool to help you extract all the memory performance, dependability, and power savings that the HP ProLiant Gen9 server is designed to deliver. Memory plays an increasingly larger part of the server's power consumption, and choosing the most efficient memory is a critical component in reducing your data center's overall power and cooling requirements. These savings translate to reduced operating cost and a faster return on investment (ROI), freeing up IT budget spent on power and cooling.

Our new generation of HP DDR4 SmartMemory delivers benefits over DDR3 such as:

Higher performance[1]
• 14–30 percent throughput at DDR4-2133

• 1 percent reduction in memory-related outages

• 4X memory capacity increase

Power savings/efficiency
• DDR4 is 37 percent more efficient than DDR3

[1] Compared to HP DDR3-1866 SmartMemory

Technical specifications

	Registered DIMM (RDIMM)		Load reduced DIMM (LRDIMM)
DIMM rank	Single rank (1R)	Dual rank (2R)	Quad rank (4R)
DIMM capacity	8 GB	16 GB	32 GB
Voltage	Standard voltage 1.2 V	Standard voltage 1.2 V	Standard voltage 1.2 V
	Populated DIMM speed (MT/s)		
1 DIMM per channel	2,133	2,133	2,133
2 DIMM per channel	2,133	2,133	2,133
3 DIMM per channel	1,600	1,600	1,600

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment. **hp.com/go/hpfinancialservices**

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