



# Memory speed tables for HPE Gen10 servers using Intel Xeon Scalable processors

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## Introduction

This paper provides an overview of HPE DDR4 server memory speeds for HPE Gen10 servers that use first-generation and second-generation Intel® Xeon® Scalable processors. The latest generation of HPE DDR4 server memory offers faster data rates, lower latencies, and greater power efficiency than the memory used in previous HPE servers. HPE DDR4 SmartMemory also provides superior performance over third-party memory when used in HPE Gen10 servers.

### HPE DDR4 SmartMemory for Intel Xeon 82xx/62xx/52xx/42xx/32xx processors

**HPE ProLiant BL460c blade servers**

**HPE ProLiant XL230k servers**

**HPE ProLiant DL360/DL380 servers**

**HPE ProLiant ML350 servers**

**HPE Synergy 480 compute modules**

**Table 1.** Registered memory kits

DIMM type	RDIMM				
HPE SKU P/N	P00918-B21	P00920-B21	P00922-B21	P00924-B21	P00930-B2
SKU description	HPE 8GB 1Rx8 PC4-2933Y-R Smart Kit	HPE 16GB 1Rx4 PC4-2933Y-R Smart Kit	HPE 16GB 2Rx8 PC4-2933Y-R Smart Kit	HPE 32GB 2Rx4 PC4-2933Y-R Smart Kit	HPE 64GB 2Rx4 PC4-2933Y-R Smart Kit
DIMM rank	Single rank (1R)	Single rank (1R)	Dual rank (2R)	Dual rank (2R)	Dual rank (2R)
<b>DIMM capacity</b>	<b>8 GB</b>	<b>16 GB</b>	<b>16 GB</b>	<b>32 GB</b>	<b>64 GB</b>
Voltage	1.2V	1.2V	1.2V	1.2V	1.2V
DRAM depth	1 Gb	2 Gb	1 Gb	2 Gb	4 Gb
DRAM width (bit)	x8	x4	x8	x4	x4
DRAM density	8 Gb	8 Gb	8 Gb	8 Gb	16 Gb
CAS latency	21-21-21	21-21-21	21-21-21	21-21-21	21-21-21
DIMM native speed (MT/s)	2933	2933	2933	2933	2933
<b>Maximum capacity (GB)</b>					
16-slot servers	128	256	256	512	1024
24-slot servers	192	384	384	768	1536
48-slot servers	384	768	768	1536	3072
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 82xx/62xx processors*</b>					
1 DIMM per channel	2933	2933	2933	2933	2933
2 DIMM per channel	2933	2933	2933	2933	2933
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold 52xx processors*</b>					
1 DIMM per channel	2666	2666	2666	2666	2666
2 DIMM per channel	2666	2666	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Silver 42xx processors</b>					
1 DIMM per channel	2400	2400	2400	2400	2400
2 DIMM per channel	2400	2400	2400	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 32xx processors</b>					
1 DIMM per channel	2133	2133	2133	2133	2133
2 DIMM per channel	2133	2133	2133	2133	2133



**Table 2.** Load-reduced memory kits

<b>DIMM type</b>		<b>LRDIMM</b>	
HPE SKU P/N	P00926-B21	P00928-B21	P11040-B21
SKU description	HPE 64GB 4Rx4 PC4-2933Y-L Smart Kit	HPE 128GB 8Rx4 PC4-2933Y-L 3DS Smart Kit	HPE 128GB 4Rx4 PC4-2933Y-L Smart Kit
DIMM rank	Quad rank (4R)	Octal rank (8R)	Quad rank (4R)
<b>DIMM capacity</b>	<b>64 GB</b>	<b>128 GB</b>	<b>128 GB</b>
Voltage	1.2V	1.2V	1.2V
DRAM depth	2 Gb	2 Gb	4 Gb
DRAM width (bit)	x4	x4	x4
DRAM density	8 Gb	8 Gb	16 Gb
CAS latency	21-21-21	24-21-21	21-21-21
DIMM native speed (MT/s)	2933	2933	2933
<b>Maximum capacity (GB)</b>			
16-slot servers	1024	2048	2048
24-slot servers	1536	3072	3072
48-slot servers	3072	6144	6144
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 82xx/62xx processors*</b>			
1 DIMM per channel	2933	2933	2933
2 DIMM per channel	2933	2933	2933
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold 52xx processors*</b>			
1 DIMM per channel	2666	2666	2666
2 DIMM per channel	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Silver 42xx processors</b>			
1 DIMM per channel	2400	2400	2400
2 DIMM per channel	2400	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 32xx processors</b>			
1 DIMM per channel	2133	2133	2133
2 DIMM per channel	2133	2133	2133



## HPE DDR4 SmartMemory for Intel Xeon 82xx/62xx/52xx/42xx/32xx processors

### HPE ProLiant DL560/DL580 servers

### HPE Synergy 660 compute modules

**Table 3.** Registered memory kits

DIMM type	RDIMM				
HPE SKU P/N	P00918-B21	P00920-B21	P00922-B21	P00924-B21	P00930-B2
SKU description	HPE 8GB 1Rx8 PC4-2933Y-R Smart Kit	HPE 16GB 1Rx4 PC4-2933Y-R Smart Kit	HPE 16GB 2Rx8 PC4-2933Y-R Smart Kit	HPE 32GB 2Rx4 PC4-2933Y-R Smart Kit	HPE 64GB 2Rx4 PC4-2933Y-R Smart Kit
DIMM rank	Single rank (1R)	Single rank (1R)	Dual rank (2R)	Dual rank (2R)	Dual rank (2R)
<b>DIMM capacity</b>	<b>8 GB</b>	<b>16 GB</b>	<b>16 GB</b>	<b>32 GB</b>	<b>64 GB</b>
Voltage	1.2V	1.2V	1.2V	1.2V	1.2V
DRAM depth	1 Gb	2 Gb	1 Gb	2 Gb	4 Gb
DRAM width (bit)	x8	x4	x8	x4	x4
DRAM density	8 Gb	8 Gb	8 Gb	8 Gb	16 Gb
CAS latency	21-21-21	21-21-21	21-21-21	21-21-21	21-21-21
DIMM native speed (MT/s)	2933	2933	2933	2933	2933
<b>Maximum capacity (GB)</b>					
16-slot servers	128	256	256	512	1024
24-slot servers	192	384	384	768	1536
48-slot servers	384	768	768	1536	3072
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 82xx/62xx processors*</b>					
1 DIMM per channel	2933	2933	2933	2933	2933
2 DIMM per channel	2666	2666	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold 52xx processors*</b>					
1 DIMM per channel	2666	2666	2666	2666	2666
2 DIMM per channel	2666	2666	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Silver 42xx processors</b>					
1 DIMM per channel	2400	2400	2400	2400	2400
2 DIMM per channel	2400	2400	2400	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 32xx processors</b>					
1 DIMM per channel	2133	2133	2133	2133	2133
2 DIMM per channel	2133	2133	2133	2133	2133



**Table 4.** Load-reduced memory kits

<b>DIMM type</b>		<b>LRDIMM</b>	
HPE SKU P/N	P00926-B21	P00928-B21	P11040-B21
SKU description	HPE 64GB 4Rx4 PC4-2933Y-L Smart Kit	HPE 128GB 8Rx4 PC4-2933Y-L 3DS Smart Kit	HPE 128GB 4Rx4 PC4-2933Y-L Smart Kit
DIMM rank	Quad rank (4R)	Octal rank (8R)	Quad rank (4R)
<b>DIMM capacity</b>	<b>64 GB</b>	<b>128 GB</b>	<b>128 GB</b>
Voltage	1.2V	1.2V	1.2V
DRAM depth	2 Gb	2 Gb	4 Gb
DRAM width (bit)	x4	x4	x4
DRAM density	8 Gb	8 Gb	16 Gb
CAS latency	21-21-21	24-21-21	21-21-21
DIMM native speed (MT/s)	2933	2933	2933
<b>Maximum capacity (GB)</b>			
16-slot servers	1024	2048	2048
24-slot servers	1536	3072	3072
48-slot servers	3072	6144	6144
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 82xx/62xx processors*</b>			
1 DIMM per channel	2933	2933	2933
2 DIMM per channel	2933	2933	2933
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold 52xx processors*</b>			
1 DIMM per channel	2666	2666	2666
2 DIMM per channel	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Silver 42xx processors</b>			
1 DIMM per channel	2400	2400	2400
2 DIMM per channel	2400	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 32xx processors</b>			
1 DIMM per channel	2133	2133	2133
2 DIMM per channel	2133	2133	2133



## HPE DDR4 SmartMemory for Intel Xeon 82xx/62xx/52xx/42xx/32xx processors

### HPE Apollo 2000/4200/4500/6500 servers

### HPE ProLiant XL170r/XL190r/XL450 servers

### HPE ProLiant ML110 servers

**Table 5.** Registered memory kits

DIMM type	RDIMM				
HPE SKU P/N	P00918-B21	P00920-B21	P00922-B21	P00924-B21	P00930-B2
SKU description	HPE 8GB 1Rx8 PC4-2933Y-R Smart Kit	HPE 16GB 1Rx4 PC4-2933Y-R Smart Kit	HPE 16GB 2Rx8 PC4-2933Y-R Smart Kit	HPE 32GB 2Rx4 PC4-2933Y-R Smart Kit	HPE 64GB 2Rx4 PC4-2933Y-R Smart Kit
DIMM rank	Single rank (1R)	Single rank (1R)	Dual rank (2R)	Dual rank (2R)	Dual rank (2R)
<b>DIMM capacity</b>	<b>8 GB</b>	<b>16 GB</b>	<b>16 GB</b>	<b>32 GB</b>	<b>64 GB</b>
Voltage	1.2V	1.2V	1.2V	1.2V	1.2V
DRAM depth	1 Gb	2 Gb	1 Gb	2 Gb	4 Gb
DRAM width (bit)	x8	x4	x8	x4	x4
DRAM density	8 Gb	8 Gb	8 Gb	8 Gb	16 Gb
CAS latency	21-21-21	21-21-21	21-21-21	21-21-21	21-21-21
DIMM native speed (MT/s)	2933	2933	2933	2933	2933
<b>Maximum capacity (GB)</b>					
6-slot servers	48	96	96	192	N/A
16-slot servers	128	256	256	512	1024
24-slot servers	192	384	384	768	1536
48-slot servers	384	768	768	1536	3072
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 82xx/62xx processors*</b>					
1 DIMM per channel	2933	2933	2933	2933	2933
2 DIMM per channel	2666	2666	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold 52xx processors*</b>					
1 DIMM per channel	2666	2666	2666	2666	2666
2 DIMM per channel	2666	2666	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Silver 42xx processors</b>					
1 DIMM per channel	2400	2400	2400	2400	2400
2 DIMM per channel	2400	2400	2400	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 32xx processors</b>					
1 DIMM per channel	2133	2133	2133	2133	2133
2 DIMM per channel	2133	2133	2133	2133	2133



**Table 6.** Load-reduced memory kits

DIMM type		LRDIMM	
HPE SKU P/N	P00926-B21	P00928-B21	P11040-B21
SKU description	HPE 64GB 4Rx4 PC4-2933Y-L Smart Kit	HPE 128GB 8Rx4 PC4-2933Y-L 3DS Smart Kit	HPE 128GB 4Rx4 PC4-2933Y-L Smart Kit
DIMM rank	Quad rank (4R)	Octal rank (8R)	Quad rank (4R)
<b>DIMM capacity</b>	<b>64 GB</b>	<b>128 GB</b>	<b>128 GB</b>
Voltage	1.2V	1.2V	1.2V
DRAM depth	2 Gb	2 Gb	4 Gb
DRAM width (bit)	x4	x4	x4
DRAM density	8 Gb	8 Gb	16 Gb
CAS latency	21-21-21	24-21-21	21-21-21
DIMM native speed (MT/s)	2933	2933	2933
<b>Maximum capacity (GB)</b>			
6-slot servers	N/A	N/A	N/A
16-slot servers	1024	2048	2048
24-slot servers	1536	3072	3072
48-slot servers	3072	6144	6144
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 82xx/62xx processors*</b>			
1 DIMM per channel	2933	2933	2933
2 DIMM per channel	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold 52xx processors*</b>			
1 DIMM per channel	2666	2666	2666
2 DIMM per channel	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Silver 42xx processors</b>			
1 DIMM per channel	2400	2400	2400
2 DIMM per channel	2400	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 32xx processors</b>			
1 DIMM per channel	2133	2133	2133
2 DIMM per channel	2133	2133	2133



## HPE DDR4 SmartMemory for Intel Xeon 81xx/61xx/51xx/41xx/31xx processors

**HPE ProLiant BL460c blade servers**

**HPE ProLiant XL170r/XL190r/XL230k servers**

**HPE ProLiant DL360/DL380/DL560/DL580 servers**

**HPE ProLiant ML350 servers**

**HPE Synergy 480/660 compute modules**

**Table 7.** Registered memory kits

DIMM type	RDIMM				
HPE SKU P/N	815097-B21	876181-B21	815098-B21	835955-B21	815100-B21
SKU description	HPE 8GB 1Rx8 PC4-2666V-R Kit	HPE 8GB 2Rx8 PC4-2666V-R Kit	HPE 16GB 1Rx4 PC4-2666V-R Kit	HPE 16GB 2Rx8 PC4-2666V-R Kit	HPE 32GB 2Rx4 PC4-2666V-R Kit
DIMM rank	Single rank (1R)	Dual rank (2R)	Single rank (1R)	Dual rank (2R)	Dual rank (2R)
<b>DIMM capacity</b>	<b>8 GB</b>	<b>8 GB</b>	<b>16 GB</b>	<b>16 GB</b>	<b>32 GB</b>
Voltage	1.2V	1.2V	1.2V	1.2V	1.2V
DRAM depth	1 Gb	512 MB	2 Gb	1 Gb	2 Gb
DRAM width (bit)	x8	x8	x4	x8	x4
DRAM density	8 Gb	4 Gb	8 Gb	8 Gb	8 Gb
CAS latency	19-19-19	19-19-19	19-19-19	19-19-19	19-19-19
DIMM native speed (MT/s)	2666	2666	2666	2666	2666
<b>Maximum capacity (GB)</b>					
16-slot servers	128	128	256	256	512
24-slot servers	192	192	384	384	768
48-slot servers	384	384	768	768	1536
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 81xx/61xx processors</b>					
1 DIMM per channel	2666	2666	2666	2666	2666
2 DIMM per channel	2666	2666	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold/Silver 51xx/41xx processors</b>					
1 DIMM per channel	2400	2400	2400	2400	2400
2 DIMM per channel	2400	2400	2400	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 31xx processors</b>					
1 DIMM per channel	2133	2133	2133	2133	2133
2 DIMM per channel	2133	2133	2133	2133	2133





**Table 8.** Load-reduced memory kits

DIMM type		LRDIMM
HPE SKU P/N	815101-B21	815102-B21
SKU description	HPE 64GB 4Rx4 PC4-2666V-L Kit	HPE 128GB 8Rx4 PC4-2666V-L Kit
DIMM rank	Quad rank (4R)	Octal rank (8R)
<b>DIMM capacity</b>	<b>64 GB</b>	<b>128 GB</b>
Voltage	1.2V	1.2V
DRAM depth	2 Gb	2 Gb
DRAM width (bit)	x4	x4
DRAM density	8 Gb	8 Gb
CAS latency	19-19-19	22-19-19
DIMM native speed (MT/s)	2666	2666
<b>Maximum capacity (GB)</b>		
16-slot servers	1024	2048
24-slot servers	1536	3072
48-slot servers	3072	6144
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 81xx/61xx processors</b>		
1 DIMM per channel	2666	2666
2 DIMM per channel	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold/Silver 51xx/41xx processors</b>		
1 DIMM per channel	2400	2400
2 DIMM per channel	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 31xx processors</b>		
1 DIMM per channel	2133	2133
2 DIMM per channel	2133	2133

**Note**

- Intel Xeon Gold 5122 processors support 2666 MT/s.
- HPE ProLiant DL560 servers do not support 31xx or 41xx processors.
- 8 GB 2Rx8 memory option supports only HPE ProLiant XL170r/XL190r/XL230k/DL360/DL380/DL560/DL580 Gen10 servers.
- Memory DIMM availability with a server platform is dependent upon completion of certification testing.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.



## HPE DDR4 SmartMemory for Intel Xeon 81xx/61xx/51xx/41xx/31xx processors HPE ProLiant ML110 servers

**Table 9.** Registered memory kits

<b>DIMM type</b>		<b>RDIMM</b>	
HPE SKU P/N	815097-B21	815098-B21	815100-B21
SKU description	HPE 8GB 1Rx8 PC4-2666V-R Kit	HPE 16GB 1Rx4 PC4-2666 V-R Kit	HPE 32GB 2Rx4 PC4-2666V-R Kit
DIMM rank	Single rank (1R)	Single rank (1R)	Dual rank (2R)
<b>DIMM capacity</b>	<b>8 GB</b>	<b>16 GB</b>	<b>32 GB</b>
Voltage	1.2V	1.2V	1.2V
DRAM depth	1 Gb	2 Gb	2 Gb
DRAM width (bit)	x8	x4	x4
DRAM density	8 Gb	8 Gb	8 Gb
CAS latency	19-19-19	19-19-19	19-19-19
DIMM native speed (MT/s)	2666	2666	2666
<b>Maximum capacity (GB)</b>			
6-slot servers	48	96	192
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold 51xx processors</b>			
1 DIMM per channel	2400	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Silver 41xx processors</b>			
1 DIMM per channel	2400	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 31xx processors</b>			
1 DIMM per channel	2133	2133	2133



## HPE DDR4 Memory for HPE Cloudline servers with Intel Xeon 82xx/62xx/52xx/42xx/32xx processors

### HPE Cloudline CL2600/CL2800 Gen10 servers

**Table 10.** Registered memory kits

DIMM type	RDIMM			
HPE SKU P/N	P14117-B21	P14119-B21	P10660-B21	P14492-B21
SKU description	HPE CL 16GB 1Rx4 PC4-2933Y-R FIO Kit	HPE CL 16GB 2Rx8 PC4-2933Y-R FIO Kit	HPE CL 32GB 2Rx4 DDR4-2933Y-R FIO Kit	HPE CL 64GB 2Rx4 PC4-2933Y-R FIO Kit
DIMM rank	Single rank (1R)	Dual rank (2R)	Dual rank (2R)	Dual rank (2R)
<b>DIMM capacity</b>	<b>16 GB</b>	<b>16 GB</b>	<b>32 GB</b>	<b>64 GB</b>
Voltage	1.2V	1.2V	1.2V	1.2V
DRAM depth	2 Gb	1 Gb	2 Gb	4 Gb
DRAM width (bit)	x4	x8	x4	x4
DRAM density	8 Gb	8 Gb	8 Gb	16 Gb
CAS latency	21-21-21	21-21-21	21-21-21	21-21-21
DIMM native speed (MT/s)	2933	2933	2933	2933
<b>Maximum capacity (GB)</b>				
24-slot servers	384	384	768	1536
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 82xx/62xx processors*</b>				
1 DIMM per channel	2933	2933	2933	2933
2 DIMM per channel	2666	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold 52xx processors*</b>				
1 DIMM per channel	2666	2666	2666	2666
2 DIMM per channel	2666	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Silver 42xx processors</b>				
1 DIMM per channel	2400	2400	2400	2400
2 DIMM per channel	2400	2400	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 32xx processors</b>				
1 DIMM per channel	2133	2133	2133	2133
2 DIMM per channel	2133	2133	2133	2133



**Table 11.** Load-reduced memory kits

<b>DIMM type</b>	<b>LRDIMM</b>
HPE SKU P/N	P14121-B21
SKU description	HPE CL 64GB 4Rx4 PC4-2933Y-L FIO Kit
DIMM rank	Quad rank (4R)
<b>DIMM capacity</b>	<b>64 GB</b>
Voltage	1.2V
DRAM depth	2 Gb
DRAM width (bit)	x4
DRAM density	8 Gb
CAS latency	21-21-21
DIMM native speed (MT/s)	2933
<b>Maximum capacity (GB)</b>	
24-slot servers	1536
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 82xx/62xx processors*</b>	
1 DIMM per channel	2933
2 DIMM per channel	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold 52xx processors*</b>	
1 DIMM per channel	2666
2 DIMM per channel	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Silver 42xx processors</b>	
1 DIMM per channel	2400
2 DIMM per channel	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 32xx processors</b>	
1 DIMM per channel	2133
2 DIMM per channel	2133



## HPE DDR4 Memory for HPE Cloudline servers with Intel Xeon 81xx/61xx/51xx/41xx/31xx processors

### HPE Cloudline CL2600/CL2800/CL3100/CL4100 servers

**Table 12.** Registered memory kits

DIMM type		RDIMM	
HPE SKU P/N	881067-B21	P07029-B21	880841-B21
SKU description	HPE CL 16GB 1Rx4 DDR4-2666-R FIO Kit	HPE CL 16GB 2Rx8 DDR4-2666-R FIO Kit	HPE CL 32GB 2Rx4 DDR4-2666-R FIO Kit
DIMM rank	Single rank (1R)	Dual rank (2R)	Dual rank (2R)
<b>DIMM capacity</b>	<b>16 GB</b>	<b>16 GB</b>	<b>32 GB</b>
Voltage	1.2V	1.2V	1.2V
DRAM depth	2 Gb	1 Gb	2 Gb
DRAM width (bit)	x4	x8	x4
DRAM density	8 Gb	8 Gb	8 Gb
CAS latency	19-19-19	19-19-19	19-19-19
DIMM native speed (MT/s)	2666	2666	2666
<b>Maximum capacity (GB)</b>			
16-slot servers	256	256	512
24-slot servers	384	384	768
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 81xx/61xx processors</b>			
1 DIMM per channel	2666	2666	2666
2 DIMM per channel	2666	2666	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold/Silver 51xx/41xx processors</b>			
1 DIMM per channel	2400	2400	2400
2 DIMM per channel	2400	2400	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 31xx processors</b>			
1 DIMM per channel	2133	2133	2133
2 DIMM per channel	2133	2133	2133



**Table 13.** Load-reduced memory kits

<b>DIMM type</b>	<b>LRDIMM</b>
HPE SKU P/N	880842-B21
SKU description	HPE CL 64GB 4Rx4 DDR4-2666-LR FIO Kit
DIMM rank	Quad rank (4R)
<b>DIMM capacity</b>	<b>64 GB</b>
Voltage	1.2V
DRAM depth	2 Gb
DRAM width (bit)	x4
DRAM density	8 Gb
CAS latency	19-19-19
DIMM native speed (MT/s)	2666
<b>Maximum capacity (GB)</b>	
16-slot servers	1024
24-slot servers	1536
<b>HPE Server Memory speed (MT/s): Intel Xeon Platinum/Gold 81xx/61xx processors</b>	
1 DIMM per channel	2666
2 DIMM per channel	2666
<b>HPE Server Memory speed (MT/s): Intel Xeon Gold/Silver 51xx/41xx processors</b>	
1 DIMM per channel	2400
2 DIMM per channel	2400
<b>HPE Server Memory speed (MT/s): Intel Xeon Bronze 31xx processors</b>	
1 DIMM per channel	2133
2 DIMM per channel	2133

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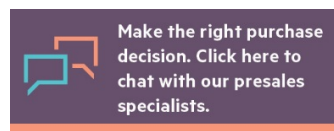
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### \* Note

- Intel Xeon Gold 52xx processors support 2933 MT/s.
  - HPE ProLiant DL560 and DL580 servers do not support 32xx or 42xx processors.
  - Memory DIMM availability and maximum memory speed with a server platform is dependent upon completion of certification testing.
  - The maximum memory speed is a function of the memory type, memory configuration, and processor model.
  - When HPE Persistent Memory for second-generation Intel Xeon Scalable processors is installed, the maximum supported memory speed is 2666 MT/s.
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