

Comparison of Current Generation x86 Blade Servers (Cisco, Dell EMC, HPE and Lenovo)

Revised December 2018

 = top values per group

Cisco

Cisco Model	Form Factor	Max. Servers per Chassis	Type of CPUs
B200 M5	Half Width	8	Intel Xeon SP
B200 M4	Half Width	8	Intel Xeon E5-2600 v4
B420 M4	Full Width	4	Intel Xeon E5-4600 v4
B260 M4	Full Width	4	Intel Xeon E7-4800 v3
B480 M5	Full Width	4	Intel Xeon SP
B460 M4	Full Width, Double-Height	2	Intel Xeon E7-4800 v4

Specs Per Server									
Max CPUs	Max Core per CPU	Max Cores per System	# internal drives	Supported Drive Types	# Mezz Slots (includes LOM)	# of DIMM Slots	Max Memory DIMM (GB)	Max Memory (GB)	
2	28	56	2	SAS, SATA, SSD, NVMe	3	24	128	3072	
2	22	44	2	SAS, SATA, SSD	3	24	64	1536	
4	22	88	4	SAS, SATA, SSD	3	48	64	3072	
2	18	36	2	SAS, SATA, SSD	3	48	64	3072	
4	28	112	4	SAS, SATA, SSD, NVMe	3	48	128	6144	
4	24	96	4	SAS, SATA, SSD	6	96	64	6144	

Specs Per 42U Rack (does not include space required for fabric interconnects)			
Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
56	112	3136	172,032
56	112	2464	86,016
28	112	2464	86,016
28	56	1008	86,016
28	112	3136	172,032
14	56	1344	86,016

Dell EMC

Dell Model	Form Factor	Max. Servers per Chassis	Type of CPUs
FC430	1/4 Width	8	Intel Xeon E5-2600 v4
FC640	Half Width	4	Intel Xeon SP
FC630	Half Width	4	Intel Xeon E5-2600 v4
FC830	Full Width	2	Intel Xeon E5-4600 v4
M640	Half Height	16	Intel Xeon SP
M630	Half Height	16	Intel Xeon E5-2600 v4
M830	Full Height	8	Intel Xeon E5-4600 v4
MX740c	Full Height	8	Intel Xeon SP
MX840c	Full Height, Double-Width	4	Intel Xeon SP

Specs Per Server									
# CPU Sockets	Max Core per CPU	Max Cores	# internal drives	Supported Drive Types	# Mezz Slots (includes LOM)	# of DIMM Slots	Max Memory DIMM (GB)	Max Memory (GB)	
2	18	36	2	SSD	1	8	64	512	
2	28	56	2	SAS, SATA, SSD, PCIe SSD	1	16	64	1024	
2	22	44	2	SAS, SATA, SSD, PCIe SSD	1	24	64	1536	
4	22	88	12	SAS, SATA, SSD, PCIe SSD	2	48	64	3072	
2	28	56	2	SAS, SATA, SSD, PCIe SSD	3	16	64	1024	
2	22	44	2	SAS, SATA, SSD, PCIe SSD	3	24	64	1536	
4	22	88	4	SAS, SATA, SSD, PCIe SSD	6	48	64	3072	
2	28	56	6	SAS, SATA, SSD, PCIe SSD	3	24	64	1536	
4	28	112	8	SAS, SATA, SSD, PCIe SSD	6	48	64	3072	

Specs Per 42U Rack			
Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
168	336	6048	86,016
84	168	4704	86,016
84	168	3696	129,024
42	168	3696	129,024
64	128	3584	65,536
64	128	2816	98,304
42	168	3696	129,024
48	96	2688	73,728
24	96	2688	73,728

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HPE

HP Model	Form Factor	Max. Servers per Chassis	Type of CPUs
BL460c Gen 10	Half Height	16	Intel Xeon SP
BL460c Gen 9	Half Height	16	Intel Xeon E5-2600 v4
BL660c Gen 9	Full Height	8	Intel Xeon E5-4600 v4
Synergy 480 Gen 10	Half Height	12	Intel Xeon SP
Synergy 480 Gen 9	Half Height	12	Intel Xeon E5-2600 v4
Synergy 620 Gen 9	Full Height	6	Intel Xeon E7 v4
Synergy 660 Gen 10	Full Height	6	Intel Xeon SP
Synergy 660 Gen 9	Full Height	6	Intel Xeon E5-4600 v4
Synergy 680 Gen 9	Full Height, Double-Wide	3	Intel Xeon E7 v4

Specs Per Server									
# CPU Sockets	Max Core per CPU	Max Cores	# internal drives	Supported Drive Types	# Mezz Slots (includes LOM)	# of DIMM Slots	Max Memory DIMM (GB)	Max Memory (GB)	
2	26	52	2	SAS, SATA, SSD	3	16	128	2048	
2	22	44	2	SAS, SATA, SSD	3	16	64	1024	
4	22	88	4	SAS, SATA, SSD	3	32	64	2048	
2	28	56	2	SAS, SATA, SSD	3	24	128	3072	
2	22	44	2	SAS, SATA, SSD	3	24	64	1536	
2	24	48	2	SAS, SATA, SSD	5	24	64	1536	
4	28	112	4	SAS, SATA, SSD	6	48	128	6144	
4	22	88	4	SAS, SATA, SSD	6	48	64	3072	
4	24	96	4	SAS, SATA, SSD	10	96	128	12288	

Specs Per 42U Rack			
Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
64	128	3328	131,072
64	128	2816	65,536
32	128	2816	65,536
48	96	2688	147,456
48	96	2112	73,728
24	48	1152	36,864
24	96	2688	147,456
24	96	2112	73,728
12	48	1152	147,456

Lenovo

Lenovo Model	Form Factor	Max. Servers per Chassis	Type of CPUs
Flex System SN850	Double-Wide	7	Intel Xeon SP
Flex System SN550	Single-Wide	14	Intel Xeon SP
Flex System x240 M5	Single-Wide	14	Intel Xeon E5-2600 v4
Flex System x480 X6	Double-Wide	7	Intel Xeon E7-4800 v3
Flex System x880 X6	Double-Wide	7	Intel Xeon E7-8800 v3

Specs Per Server									
# CPU Sockets	Max Core per CPU	Max Cores	# internal drives	Supported Drive Types	# Mezz Slots (includes LOM)	# of DIMM Slots	Max Memory DIMM (GB)	Max Memory (GB)	
4	28	112	4	SAS, SATA, SSD	4	48	128	6144	
2	28	56	2	SAS, SATA, SSD	2	24	128	3072	
2	22	44	2	SAS, SATA, SSD	2	24	64	1536	
2	14	28	2	SAS, SATA, SSD	4	48	32	1536	
2	18	36	2	SAS, SATA, SSD	4	48	32	1536	

Specs Per 42U Rack			
Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
28	112	3136	172,032
56	112	3136	172,032
56	112	2464	86,016
28	56	784	43,008
28	56	1008	43,008

NOTICE

The CPU cores shown in chart above represent maximum capabilities of the Intel CPU and does not include features like HyperThreading.

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