

Comparison of Current Generation x86 Blade Servers (Cisco, Dell, HP and IBM)

last updated 5.23.15 with Intel E7 v3 CPUs

= top values per group

Cisco

Cisco Model	Form Factor	Max. Servers per Chassis	Type of CPUs
B22 M3	Half Width	8	Intel Xeon E5-2400
B200 M3	Half Width	8	Intel Xeon E5-2600 v2
B200 M4	Half Width	8	Intel Xeon E5-2600 v3
B260 M4	Full Width	4	Intel Xeon E7-4800 v3
B420 M3	Full Width	4	Intel Xeon E5-4600 v2
B440 M2	Full Width	4	Intel Xeon E7-4800
B460 M4	Full Width	2	Intel Xeon E7-4800 v3

Specs Per Server									
Max CPUs	Max Core per CPU	Max Cores per System	# internal drives	Supported Drive Types	Max LAN on Motherboard	# I/O Card Expansion Slots	# of DIMM Slots	Max Memory (GB)	
2	8	16	2	SAS, SATA, SSD	VIC 1240 (dual 2-port 10 Gigabit Ethernet)*	1	12	384	
2	12	24	2	SAS, SATA, SSD	VIC 1240 (dual 2-port 10 Gigabit Ethernet)*	1	24	768	
2	18	36	2	SAS, SATA, SSD	VIC 1240 (dual 2-port 10 Gigabit Ethernet)*	1	24	768	
2	18	36	2	SAS, SATA, SSD	none - requires use of the mezz expansion slot	2	48	3072	
4	12	32	4	SAS, SATA, SSD	VIC 1240 (dual 2-port 10 Gigabit Ethernet)*	2	48	3072	
4	10	40	4	SAS, SATA, SSD	none - requires use of the mezz expansion slot	2	32	1024	
4	18	72	4	SAS, SATA, SSD	none - requires use of the mezz expansion slot	2	96	6144	

Specs Per 42U Rack (based on 7 x 6U chassis)*			
Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
56	112	896	21504
56	112	1344	43008
56	112	2016	43008
28	56	1008	86016
28	112	896	86016
28	112	1120	28672
14	56	1008	86016

*all 4 ports requires the 2208XP FEX

*Fabric Interconnect may consume up to 2U in a rack

Dell

Dell Model	Form Factor	Max. Servers per Chassis	Type of CPUs
M420	1/4 height	32	Intel Xeon E5-2400 v2
M520	Half Height	16	Intel Xeon E5-2400
M620	Half Height	16	Intel Xeon E5-2600 v2
FC430	1/4 Width	8	Intel Xeon E5-2600 v3
FC630	Half Width	4	Intel Xeon E5-2600 v3
M630	Half Height	16	Intel Xeon E5-2600 v3
M820	Full Height	8	Intel Xeon E5-4600 v2
M915	Full Height	8	AMD Opteron 6300

Specs Per Server									
# CPU Sockets	Max Core per CPU	Max Cores	# internal drives	Supported Drive Types	Max LAN on Motherboard	# I/O Card Expansion Slots	# of DIMM Slots	Max Memory (GB)	
2	10	20	2	SSD	2 x 10GbE	1	6	192	
2	8	16	2	SAS, SATA, SSD	4 x 1GbE	2	12	384	
2	12	24	2	SAS, SATA, SSD, PCIe SSD	4 x 10GbE	2	24	768	
2	14	28	2	SSD	2 x 10GbE	1	8	512	
2	18	36	2	SAS, SATA, SSD, PCIe SSD	4 x 10GbE	2	24	1536	
2	18	36	2	SAS, SATA, SSD, PCIe SSD	4 x 10GbE	2	24	1536	
4	12	48	4	SAS, SSD, PCIe SSD*	4 x 10GbE	4	48	3072	
4	16	64	2	SAS, SATA SSD	4 x 10GbE	4	32	1024	

Specs Per 42U Rack (based on 4 x 10U chassis)			
Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
128	256	2560	24576
64	128	1024	24576
64	128	1536	49152
168	336	4704	86016
84	168	3024	129024
64	128	2304	98304
32	128	1536	98304
32	128	2048	32768

*PCIe SSD limited to 2 drives

HP

HP Model	Form Factor	Max. Servers per Chassis	Type of CPUs
BL460c Gen 8	Half Height	16	Intel Xeon E5-2600 v2
BL460c Gen 9	Half Height	16	Intel Xeon E5-2600 v3
BL465c Gen 8	Half Height	16	AMD Opteron 6300
BL660c Gen 8	Full Height	8	Intel Xeon E5-4600 v2
BL685c G7	Full Height	8	AMD Opteron 6300

Specs Per Server									
# CPU Sockets	Max Core per CPU	Max Cores	# internal drives	Supported Drive Types	Max LAN on Motherboard	# I/O Card Expansion Slots	# of DIMM Slots	Max Memory (GB)	
2	12	24	2	SAS, SATA, SSD	2 x 10GbE	2	16	512	
2	18	36	2	SAS, SATA, SSD	2 x 10GbE	2	16	512	
2	16	32	2	SAS, SATA, SSD	2 x 10GbE	2	16	512	
4	12	48	4	SAS, SATA, SSD	4 x 10GbE	3	32	1024	
4	16	64	2	SAS, SATA SSD	4 x 10GbE	3	32	1024	

Specs Per 42U Rack (based on 4 x 10U chassis)			
Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
64	128	1536	32768
64	128	2304	32768
64	128	2048	32768
32	128	1536	32768
32	128	2048	32768

Lenovo

Lenovo Model	Form Factor	Max. Servers per Chassis	Type of CPUs
HS23E	Single-Wide	14	Intel Xeon E5-2400
HS23	Single-Wide	14	Intel Xeon E5-2600 v2
Flex System x220	Single-Wide	14	Intel Xeon E5-2400
Flex System x222	2 Servers in Double-Wide	28	Intel Xeon E5-2400
Flex System x240	Single-Wide	14	Intel Xeon E5-2600 v2
Flex System x240 M5	Single-Wide	14	Intel Xeon E5-2600 v3
Flex System x280 X6	Single-Wide	7	Intel Xeon E7-2800 v2
Flex System x440	Double-Wide	7	Intel Xeon E5-4600 v2
Flex System x480 X6	Single-Wide	7	Intel Xeon E7-4800 v3
Flex System x880 X6	Single-Wide	7	Intel Xeon E7-8800 v3

Specs Per Server									
# CPU Sockets	Max Core per CPU	Max Cores	# internal drives	Supported Drive Types	LAN on Motherboard	# I/O Card Expansion Slots	# of DIMM Slots	Max Memory (GB)	
2	8	16	2	SAS, SATA, SSD	2 x 1GbE	2	12	192	
2	12	24	2	SAS, SATA, SSD	2 x 1GbE + 2 x 10GbE	2	16	512	
2	8	16	2	SAS, SATA, SSD	2 x 1GbE	2	12	384	
2	8	16	2	SSD	2 x 10GbE	1	12	384	
2	12	24	2	SAS, SATA, SSD	2 x 10GbE	2	24	768	
2	18	36	2	SAS, SATA, SSD	2 x 10GbE	2	24	768	
2	15	30	2	SAS, SATA, SSD	4 x 10GbE	4	48	3072	
4	12	48	2	SAS, SATA, SSD	4 x 10GbE	4	48	3072	
2	14	28	2	SAS, SATA, SSD	4 x 10GbE	4	48	3072	
2	18	36	2	SAS, SATA, SSD	4 x 10GbE	4	48	3072	

Specs Per 42U Rack (based on 4 x chassis)			
Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
56	112	896	10752
56	112	1344	28672
56	112	896	21504
112	224	1792	43008
56	112	1344	43008
56	112	2016	43008
28	56	840	86016
28	112	1344	86016
28	56	784	86016
28	56	1008	86016