

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

 = top values per group

Cisco

	Cisco Model	Form Factor	Max. Servers per Chassis	Type of CPUs	Specs Per Server										Specs Per 42U Rack (does not include space required for fabric interconnects)			
					Max CPUs	Max Core per CPU	Max Cores per System	# Internal drives	Supported Drive Types	Max LAN on Motherboard	# NIC/HBA Card Expansion Slots	# of DIMM Slots	Max Memory DIMM (GB)	Max Memory (GB)	Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
new	B200 M5	Half Width	8	Intel Xeon SP	2	28	56	2	SAS, SATA, SSD, NVMe	VIC 1340 (2-port 40 Gigabit Ethernet)	1	24	128	3072	56	112	3136	172,032
	B200 M4	Half Width	8	Intel Xeon E5-2600 v4	2	22	44	2	SAS, SATA, SSD	VIC 1340 (2-port 40 Gigabit Ethernet)	1	24	64	1536	56	112	2464	86,016
	B420 M4	Full Width	4	Intel Xeon E5-4600 v4	4	22	88	4	SAS, SATA, SSD	VIC 1340 (2-port 40 Gigabit Ethernet)	2	48	64	3072	28	112	2464	86,016
new	B260 M4	Full Width	4	Intel Xeon E7-4800 v3	2	18	36	2	SAS, SATA, SSD	VIC 1340 (2-port 40 Gigabit Ethernet)	2	48	64	3072	28	56	1008	86,016
	B480 M5	Full Width	4	Intel Xeon SP	4	28	112	4	SAS, SATA, SSD, NVMe	VIC 1340 (2-port 40 Gigabit Ethernet)	2	48	128	6144	28	112	3136	172,032
	B460 M4	Full Width, Double-Height	2	Intel Xeon E7-4800 v4	4	24	96	4	SAS, SATA, SSD	2 x VIC 1340 (2-port 40 Gigabit Ethernet)	4	96	64	6144	14	56	1344	86,016

Dell EMC

	Dell Model	Form Factor	Max. Servers per Chassis	Type of CPUs	Specs Per Server										Specs Per 42U Rack			
					# CPU Sockets	Max Core per CPU	Max Cores	# Internal drives	Supported Drive Types	Max LAN on Motherboard	# NIC/HBA Card Expansion Slots	# of DIMM Slots	Max Memory DIMM (GB)	Max Memory (GB)	Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
new	FC430	1/4 Width	8	Intel Xeon E5-2600 v4	2	18	36	2	SSD	2 x 10GbE	1	8	64	512	168	336	6048	86,016
	FC640	Half Width	4	Intel Xeon SP	2	28	56	2	SAS, SATA, SSD, PCIe SSD	4 x 10GbE	2	16	64	1024	84	168	4704	86,016
	FC630	Half Width	4	Intel Xeon E5-2600 v4	2	22	44	2	SAS, SATA, SSD, PCIe SSD	4 x 10GbE	2	24	64	1536	84	168	3696	129,024
new	FC830	Full Width	2	Intel Xeon E5-4600 v4	4	22	88	12	SAS, SATA, SSD, PCIe SSD	4 x 10GbE	4	48	64	3072	42	84	1848	129,024
	M640	Half Height	16	Intel Xeon SP	2	28	56	2	SAS, SATA, SSD, PCIe SSD	4 x 10GbE	2	16	64	1024	64	128	3584	65,536
	M630	Half Height	16	Intel Xeon E5-2600 v4	2	22	44	2	SAS, SATA, SSD, PCIe SSD	4 x 10GbE	2	24	64	1536	64	128	2816	98,304

HPE

	HP Model	Form Factor	Max. Servers per Chassis	Type of CPUs	Specs Per Server										Specs Per 42U Rack			
					# CPU Sockets	Max Core per CPU	Max Cores	# Internal drives	Supported Drive Types	Max LAN on Motherboard	# NIC/HBA Card Expansion Slots	# of DIMM Slots	Max Memory DIMM (GB)	Max Memory (GB)	Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
new	BL460c Gen 10	Half Height	16	Intel Xeon SP	2	26	52	2	SAS, SATA, SSD	2 x 20GbE	2	16	64	1024	64	128	3328	65,536
	BL460c Gen 9	Half Height	16	Intel Xeon E5-2600 v4	2	22	44	2	SAS, SATA, SSD	2 x 10GbE	2	16	64	1024	64	128	2816	65,536
	BL660c Gen 9	Full Height	8	Intel Xeon E5-4600 v4	4	22	88	4	SAS, SATA, SSD	4 x 10GbE	3	32	64	2048	32	128	2816	65,536
new	Synergy 480 Gen 10	Half Height	12	Intel Xeon SP	2	28	56	2	SAS, SATA, SSD	2 x 20GbE	2	24	64	1536	48	96	2688	73,728
	Synergy 480 Gen 9	Half Height	12	Intel Xeon E5-2600 v4	2	22	44	2	SAS, SATA, SSD	2 x 20GbE	2	24	64	1536	48	96	2112	73,728
	Synergy 620 Gen 9	Full Height	6	Intel Xeon E7 v4	2	24	48	2	SAS, SATA, SSD	2 x 20GbE	4	24	64	1536	24	48	1152	36,864
new	Synergy 660 Gen 10	Full Height	6	Intel Xeon SP	4	28	112	4	SAS, SATA, SSD	2 x 100GbE	5	48	64	3072	24	96	2688	73,728
	Synergy 660 Gen 9	Full Height	6	Intel Xeon E5-4600 v4	4	22	88	4	SAS, SATA, SSD	2 x 20GbE	5	48	64	3072	24	96	2112	73,728
	Synergy 680 Gen 9	Full Height, Double-Wide	3	Intel Xeon E7 v4	4	24	96	4	SAS, SATA, SSD	2 x 20GbE	9	96	64	6144	12	48	1152	73,728

* reduced one expansion slot on Synergy 600 series servers to account for LAN on Motherboard

Lenovo

	Lenovo Model	Form Factor	Max. Servers per Chassis	Type of CPUs	Specs Per Server										Specs Per 42U Rack			
					# CPU Sockets	Max Core per CPU	Max Cores	# Internal drives	Supported Drive Types	LAN on Motherboard	# NIC/HBA Card Expansion Slots	# of DIMM Slots	Max Memory DIMM (GB)	Max Memory (GB)	Max # Servers	Max CPUs	Max CPU Cores	Max Memory (GB)
new	Flex System SN850	Double-Wide	7	Intel Xeon SP	4	28	112	4	SAS, SATA, SSD	4 x 10GbE	4	48	64	3072	28	112	3136	86,016
	Flex System SN550	Single-Wide	14	Intel Xeon SP	2	28	56	2	SAS, SATA, SSD	4 x 10GbE	1	24	64	1536	56	112	3136	86,016
new	Flex System x240 M5	Single-Wide	14	Intel Xeon E5-2600 v4	2	22	44	2	SAS, SATA, SSD	4 x 10GbE	1	24	64	1536	56	112	2464	86,016
	Flex System x480 X6	Double-Wide	7	Intel Xeon E7-4800 v3	2	14	28	2	SAS, SATA, SSD	4 x 10GbE	4	48	32	1536	28	56	784	43,008
	Flex System x880 X6	Double-Wide	7	Intel Xeon E7-8800 v3	2	18	36	2	SAS, SATA, SSD	4 x 10GbE	4	48	32	1536	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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