

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

  = top values per group

### Cisco

Model	Form Factor	Max. Servers per Chassis	Type of CPUs
B200 M5	Half Width	8	Intel Xeon SP
B480 M5	Full Width	4	Intel Xeon SP

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 Traditional Memory (GB)	Max Memory with Intel Optane - App Direct Mode (GB)*	Max Memory with Intel Optane - Memory Mode (GB)*
2	28	56	2	SAS, SATA, SSD, NVMe	3	24	128	3072	9216	6144
4	28	112	4	SAS, SATA, SSD, NVMe	5	48	128	6144	18432	12288

Specs Per 42U Rack (includes space required for fabric Interconnects)					
Max # Servers	Max CPUs	Max CPU Cores	Max Traditional Memory (TB)	Max Memory with Intel Optane - App Direct Mode (TB)	Max Memory with Intel Optane - Memory Mode (TB)
48	96	2688	144	432	288
24	96	2688	144	432	288

### Dell EMC

Model	Form Factor	Max. Servers per Chassis	Type of CPUs
FC640	Half Width	4	Intel Xeon SP
M640	Half Height	16	Intel Xeon SP
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 Traditional Memory (GB)	Max Memory with Intel Optane - App Direct Mode (GB)*	Max Memory with Intel Optane - Memory Mode (GB)*
2	28	56	2	SAS, SATA, SSD, PCIe SSD	1	16	64	1024		
2	28	56	2	SAS, SATA, SSD, PCIe SSD	3	16	64	1024		
2	28	56	6	SAS, SATA, SSD, PCIe SSD	3	24	128	3072	9216	6144
4	28	112	8	SAS, SATA, SSD, PCIe SSD	6	48	128	6144	18432	12288

Specs Per 42U Rack					
Max # Servers	Max CPUs	Max CPU Cores	Max Traditional Memory (TB)	Max Memory with Intel Optane - App Direct Mode (TB)	Max Memory with Intel Optane - Memory Mode (TB)
84	168	4704	84		
64	128	3584	64		
48	96	2688	144	432	288
24	96	2688	144	432	288

### HPE

Model	Form Factor	Max. Servers per Chassis	Type of CPUs
BL460c Gen 10	Half Height	16	Intel Xeon SP
Synergy 480 Gen 10	Half Height	12	Intel Xeon SP
Synergy 660 Gen 10	Full Height	6	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 Traditional Memory (GB)	Max Memory with Intel Optane - App Direct Mode (GB)*	Max Memory with Intel Optane - Memory Mode (GB)*
2	26	52	2	SAS, SATA, SSD	3	16	128	2048		
2	28	56	2	SAS, SATA, SSD	3	24	128	3072	9216	6144
4	28	112	4	SAS, SATA, SSD	6	48	128	6144	12288	12288

Specs Per 42U Rack					
Max # Servers	Max CPUs	Max CPU Cores	Max Traditional Memory (TB)	Max Memory with Intel Optane - App Direct Mode (TB)	Max Memory with Intel Optane - Memory Mode (TB)
64	128	3328	128		
48	96	2688	144	432	288
24	96	2688	144	288	288

### Lenovo

Model	Form Factor	Max. Servers per Chassis	Type of CPUs
Flex System SN550	Single-Wide	14	Intel Xeon SP
Flex System SN850	Double-Wide	7	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 Traditional Memory (GB)	Max Memory with Intel Optane - App Direct Mode (GB)*	Max Memory with Intel Optane - Memory Mode (GB)*
2	28	56	2	SAS, SATA, SSD	2	24	128	3072	9216	6144
4	28	112	4	SAS, SATA, SSD	4	48	128	6144	12288	12288

Specs Per 42U Rack					
Max # Servers	Max CPUs	Max CPU Cores	Max Traditional Memory (TB)	Max Memory with Intel Optane - App Direct Mode (TB)	Max Memory with Intel Optane - Memory Mode (TB)
56	112	3136	168	504	336
28	112	3136	168	336	336

#### NOTICE

\* Memory greater than 1TB per CPU requires a 2nd Generation Intel Xeon SP CPU with an "M" (1TB-2TB/CPU) or "L" suffix (>2TB/CPU). The CPU cores shown in chart above represent maximum capabilities of the Intel CPU and does not include features like HyperThreading. This chart is subject to change without notice and is provided "as is" without warrant of any kind, express or implied. BladesMadeSimple.com does not make any representations regarding the accuracy or reliability of the chart shown above. The entire risk arising out of the use of this chart remains solely with the customer. In no event shall BladesMadeSimple.com be liable for any direct, consequential, incidental, special, punitive or other damages, even if BladesMadeSimple.com is negligent or has been advised of the possibility of such damages, arising from use of the tool or the information provided herein. Visit <http://BladesMadeSimple.com> to report any errors.

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