13th Generation of PowerEdge™ Servers

Quick comparison guide
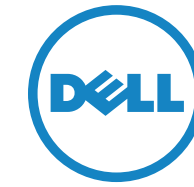
DELL OEM Solutions

Rack servers

	PowerEdge™ R420	PowerEdge™ R430	PowerEdge™ R520	PowerEdge™ R530	PowerEdge™ R620	PowerEdge™ R630
OEM Ready	Yes	Yes	Yes	Yes	Yes	Yes
XL Program Avail.	No	No	Yes	No	Yes	Yes
Carrier Grade Version	No	No	No	No	Yes	Yes
Processors	Intel® Xeon® processor E5-2400 v2	Intel® Xeon® processor E5-2600 v3	Intel® Xeon® processor E5-2400 v2	Intel® Xeon® processor E5-2600 v3	2 x Intel® Xeon® processor E5-2600 v2	2 x Intel® Xeon® processor E5-2600 v3
Memory	12 DIMM slots (DDR3)	12 DIMM slots (DDR4)	12 DIMM slots (DDR3)	12 DIMM slots (DDR4)	24 DIMM slots (DDR3)	24 DIMM slots (DDR4)
Disk Drives						
1.8" Drives	n/a	n/a	n/a	n/a	n/a	Up to 24
2.5" Drives	Up to 8	Up to 10	Up to 8	Up to 8	Up to 10	Up to 10
3.5" Drives	Up to 4	Up to 4	Up to 8	Up to 8	n/a	n/a
Hot Plug	Yes	Yes	Yes	Yes	Yes	Yes
SATA	Yes	Yes	Yes	Yes	Yes	Yes
SAS	Yes	Yes	Yes	Yes	Yes	Yes
SSD	Yes	Yes	Yes	Yes	Yes	Yes
Flash Storage	n/a	n/a	n/a	n/a	Up to 2	Up to 4 (NVME)
RAID	Perc 8	Perc 9	Perc 8	Perc 9	Perc 8	Perc 9
PCIe slots	Up to 2	Up to 2	Up to 4 plus dedicated PERC slot	Up to 5 plus dedicated PERC slot	up to 3 plus dedicated PERC slot	up to 3 plus dedicated PERC slot
PCIe Full Length	0	0	1	1	1 x 3/4 length	1 x 3/4 length
PCIe Full Height	1	1	3	2	1	1
PCIe Power	up to 1 x25W, up to 2 x75W	up to 1 x25W, up to 2 x75W	up to 3 x25W, up to 2 x75W	up to 3 x25W, up to 2 x75W	75W each	75W each
x16	Up to 2	Up to 2	Up to 1	Up to 2	2	2
GPU	n/a	n/a	n/a	n/a	1 x SW 3/4 length	n/a
Onboard NIC	2x1Gb	4x1Gb	2x1Gb	4x1Gb	4 x 1GbE or 2x10GbE	4 x 1GbE or 2x10+2GbE
PSU						
Low	350W	450W	495W	495W	495W	495W
Med	550W	550W	750W	750W	750W, 750W titanium	750W, 750W titanium
High	n/a	n/a	1100W	1100W	1100W	1100W
DC	n/a	n/a	1100W DC	1100W DC	1100W	1100W
Management	Dell OpenManage™	Dell OpenManage™	Dell OpenManage™	Dell OpenManage™	Dell OpenManage™	Dell OpenManage™
Remote Mangagement	iDRAC7	iDRAC8	iDRAC7	iDRAC8	iDRAC7	iDRAC8
Rack Height	1U	1U	2U	2U	1U rack	1U rack
Rack Depth (ear to PSU handle)	660mm / 26" (ear to handle)	660mm / 26" (ear to handle)	648mm / 25.5" (ear to handle)	648mm / 25.5" (ear to handle)	up to 776.16 mm	up to 776.16 mm

DELL OEM Solutions

Rack servers

	PowerEdge™ R720	PowerEdge™ R730	PowerEdge™ R720xd	PowerEdge™ R730xd
OEM Ready	Yes	Yes	Yes	Yes
XL Program Avail.	Yes	Yes	Yes	Yes
Carrier Grade Version	Yes	Yes	No	No
Processors	2 x Intel® Xeon® processor E5-2600 v2	2 x Intel® Xeon® processor E5-2600 v3	2 x Intel® Xeon® processor E5-2600 v2	2 x Intel® Xeon® processor E5-2600 v3
Memory	24 DIMM slots (DDR3)	24 DIMM slots (DDR4)	24 DIMM slots (DDR3)	24 DIMM slots (DDR4)
Disk Drives				
1.8″ Drives	n/a	n/a	n/a	Up to 18
2.5″ Drives	Up to 16	Up to 16	Up to 26	Up to 26
3.5″ Drives	Up to 8	Up to 8	Up to 12	Up to 16
Hot Plug	Yes	Yes	Yes	Yes
SATA	Yes	Yes	Yes	Yes
SAS	Yes	Yes	Yes	Yes
SSD	Yes	Yes	Yes	Yes
Flash Storage	Up to 4	n/a	n/a	Up to 4 (NVME)
RAID	Perc 8	Perc 9	Perc 8	Perc 9
PCIe slots	up to 7 plus dedicated PERC slot	up to 7 plus dedicated PERC slot	up to 6 plus dedicated PERC slot	up to 6 plus dedicated PERC slot
PCIe Full Length	4	4	3	3
PCIe Full Height	4	4	3	3
PCIe Power	4 x75W, 3 x25W	4 x75W, 3 x25W	3 x75W, 3 x25W	3 x75W, 3 x25W
x16	2	2	2	2
GPU	2 x DW, 4 x SW	2 x DW, 4 x SW	n/a	n/a
Onboard NIC	4 x 1GbE or 2x10GbE	4 x 1GbE or 2x10+2GbE	4 x 1GbE or 2x10GbE	4 x 1GbE or 2x10+2GbE
PSU				
Low	495W	495W	495W	495W
Med	750W, 750W titanium	750W, 750W titanium	750W, 750W titanium	750W, 750W titanium
High	1100W	1100W	1100W	1100W
DC	1100W	1100W	1100W	1100W
Management	Dell OpenManage™	Dell OpenManage™	Dell OpenManage™	Dell OpenManage™
Remote Mangagement	iDRAC7	iDRAC8	iDRAC7	iDRAC8
Rack Height	2U rack	2U rack	2U rack	2U rack
Rack Depth (ear to PSU handle)	723.8 mm	723.8 mm	723.8 mm	723.8 mm

DELL OEM Solutions

Tower servers

	PowerEdge™ T420	PowerEdge™ T430	PowerEdge™ T620	PowerEdge™ T630
OEM Ready	Yes	Yes	Yes	Yes
XL Program Avail.	No	No	No	No
Carrier Grade Version	No	No	No	No
Processors	Intel® Xeon® processor E5-2400 v2	Intel® Xeon® processor E5-2600 v3	2 x Intel® Xeon® processor E5-2600 v2	2 x Intel® Xeon® processor E5-2600 v3
Memory	12 DIMM slots (DDR3)	12 DIMM slots (DDR4)	24 DIMM slots (DDR3)	24 DIMM slots (DDR4)
Disk Drives				
1.8" Drives	n/a	n/a	n/a	n/a
2.5" Drives	Up to 16	Up to 16	Up to 32	Up to 32
3.5" Drives	Up to 8	Up to 8	Up to 12	Up to 18
Hot Plug	Yes	Yes	Yes	Yes
SATA	Yes	Yes	Yes	Yes
SAS	Yes	Yes	Yes	Yes
SSD	Yes	Yes	Yes	Yes
Flash Storage	n/a	n/a	Up to 4	Up to 4 (NVME)
RAID	Perc 8	Perc 9	Perc 8	Perc 9
PCIe slots	6	6	7 plus dedicated PERC slot	7 plus dedicated PERC slot
PCIe Full Length	4	2	7	6
PCIe Full Height	6	6	7	7
PCIe Power	2 x75W, 4 x25W	2 x75W, 4 x25W	4 x75W, 3 x25W	4 x75W, 3 x25W
x16	2	2	4	4
GPU	Up to 2	n/a	Up to 4DW 300W with 2 open slots	Up to 4DW 300W with 2 open slots
Onboard NIC	2x1Gb	2x1Gb	2 x 1Gbe	2 x 1Gbe
PSU				
Low	495W	495W	495W	495W
Med	750W	750W	750W, 750W titanium	750W, 750W titanium
High	n/a	1100W	1100W, 1600W	1100W, 1600W
DC	n/a	n/a	1100W	1100W
Management	Dell OpenManage™	Dell OpenManage™	Dell OpenManage™	Dell OpenManage™
Remote Mangagement	iDRAC7	iDRAC8	iDRAC7	iDRAC8
Rack Height	Tower (5U rackable)	Tower (5U rackable)	Tower (5U rackable)	Tower (5U rackable)
Rack Depth (ear to PSU handle)	578.4mm / 22.8"	578.4mm / 22.8"	up to 692.8mm	up to 752.1 mm

DELL OEM Solutions

Blades

	PowerEdge™ M620	PowerEdge™ M630
OEM Ready	No	No
XL Program Avail.	No	No
Carrier Grade Version	Yes	Yes
Processors	Intel® Xeon® processor E5-2600 v2	Intel® Xeon® processor E5-2600 v3
Memory	24 DIMM slots (DDR3)	24 DIMM slots (DDR4)
Disk Drives		
1.8″ Drives	n/a	Up to 4
2.5″ Drives	Up to 2	Up to 2
3.5″ Drives	n/a	n/a
Hot Plug	Yes	Yes
SATA	Yes	Yes
SAS	Yes	Yes
SSD	Yes	Yes
Flash Storage	Up to 2 PCIe SSDs	Up to 2 PCIe SSDs
RAID	PERC8	PERC9
PCIe slots	2 PCIe mezzanine slots	2 PCIe mezzanine slots
PCIe Full Length	No user PCIe	No user PCIe
PCIe Full Height	No user PCIe	No user PCIe
PCIe Power	No user PCIe	No user PCIe
x16	No user PCIe	No user PCIe
GPU	n/a	n/a
Onboard NIC	1	1
PSU	Supplied by Dell™ PowerEdge™ M1000e Blade Chassis	Supplied by Dell™ PowerEdge™ M1000e Blade Chassis
Low	Shared PSUs in Chassis	Shared PSUs in Chassis
Med	Shared PSUs in Chassis	Shared PSUs in Chassis
High	Shared PSUs in Chassis	Shared PSUs in Chassis
DC	Shared PSUs in Chassis	Shared PSUs in Chassis
Management	Dell OpenManage™	Dell OpenManage™
Remote Management	iDRAC7	iDRAC8
Rack Height	Half-height Blade	Half-height Blade
Rack Depth (ear to PSU handle)	486mm / 19.2″	564.9mm / 22.2″

OEM Solutions

FX Architecture

	PowerEdge™ FC630	PowerEdge™ FM120x4
OEM Ready	No	No
XL Program Avail.	No	No
Carrier Grade Version	No	No
Processors	Intel® Xeon® processor E5-2600 v3	4x Intel® Atom processor C2000 product family
Memory	24 DIMM slots (DDR4)	2 DIMM slots (DDR3) per SOC
Disk Drives		
1.8" Drives	Up to 8	2
2.5" Drives	Up to 2	1
3.5" Drives	n/a	n/a
Hot Plug	Yes	Yes
SATA	Yes	Yes
SAS	Yes	Yes
SSD	Yes	Yes
Flash Storage	Up to 2 PCIe SSDs	n/a
RAID	PERC9	OS RAID
PCIe slots	2 PCIe mezzanine slots	n/a
PCIe Full Length	No user PCIe	n/a
PCIe Full Height	No user PCIe	n/a
PCIe Power	No user PCIe	n/a
x16	No user PCIe	n/a
GPU	n/a	n/a
Onboard NIC	1	1
PSU	Supplied by Dell™ PowerEdge™ FX2 Chassis	Supplied by Dell™ PowerEdge™ FX2 Chassis
Low	n/a	n/a
Med	1100W	1100W
High	1600W	1600W
DC	n/a	n/a
Management	Dell OpenManage™	Dell OpenManage™
Remote Management	iDRAC8	iDRAC8
Rack Height	Half-width computer node	Half-width computer node
Rack Depth (ear to PSU handle)	508.3mm / 20.0"	471.7mm / 18.6"

OEM Solutions