DELL POWEREDGE SERVER COMPARISON CHART
Rack Servers

RACK OPTIMIZED POWEREDGE SERVERS	Intel Processor Technology 1-socket (1S)	Intel Processor Technology 1-socket (1S)	Intel Processor Technology 1-socket (1S)	Intel Processor Technology 1-socket (1S)	Intel Processor Technology 2-socket (2S)	Intel Processor Technology 2-socket (2S)
	PowerEdge R220	**PowerEdge R230**	**PowerEdge R320**	**PowerEdge R330**	**PowerEdge R430**	**PowerEdge R530**
Competitors	RS140 (Lenovo TS)		x3250 M5 (Lenovo System x)		x3530 M4 (Lenovo System x), RD350 (Lenovo TS)	x3630 M4 (Lenovo System x), RD450 (Lenovo TS)
	DL120 Gen9 (HP)	DL20 Gen 9 (HP)	DL320e Gen8 (HP)	DL120 Gen9 (HP)	DL60 Gen9, DL160 Gen9 (HP)	DL80 Gen9, DL180 Gen9 (HP)
Rack Height	1U	1U	1U	1U	1U	2U
Chipset	Intel C222 Lynx Point	Intel C236	Intel C602 Patsburg-J	Intel C236	Intel C610	Intel C610
FSB / HT / Interconnect	DMI @ 5.0 GT/s	Intel DMI 3.0	QPI @ 8.0 GT/s	Intel DMI 3.0	QPI @ Up to 9.6 GT/s	QPI @ Up to 9.6 GT/s
Processors	Xeon E3-1200v3 "Haswell" Core i3/Celeron/Pentium "Haswell"	Intel® Xeon® processor E3-1200 v5 product family Intel® Core™ i3-6100 product family Intel® Pentium® processors	Xeon E5-2400v2 "IvyBridge-EN" Xeon E5-2400 "SandyBridge-EN" Xeon E5-1400 "SandyBridge-EN" Intel Pentium 1400 "SandyBridge-DT"	Intel® Xeon® processor E3-1200 v5 product family	1x/2x Intel® Xeon® E5-2600 v3 "Haswell"	1x/2x Intel® Xeon® E5-2600 v3 "Haswell"
Memory	Up to 32GB | 4 Slots | up to 1600MT/s	Up to 64GB | 4 Slots | 2133MHz	Up to 192GB | 6 Slots | up to 1600MT/s	Up to 64GB | 4 Slots | 2133MHz	Up to 384GB | 12 Slots | up to 2133MT/s	Up to 384GB | 12 Slots | up to 2133MT/s
Hard Drives	2x 2.5" Cabled or 2x 3.5" Cabled	4x 3.5" Cabled or 4x 3.5" Hot plug	8x 2.5" Hot plug or 4x 3.5" Cabled / Hot plug	4x 3.5" Cabled or HP 8x 2.5" HP or 2x 1.8" cabled	10x/8x 2.5" Hot plug or 4x 3.5" Cabled / Hot plug	8x 3.5" Hot plug
Internal HD / RAID Controller	Optional S110, H310	S130 H330 H370	Optional S110, H310, H710	S130 H330 H370	Optional S130(SW), H330, H730, H730p	Optional S130(SW), H330, H730, H730p
Integrated Slot	n/a	n/a	PCIe x8	n/a	PCIe x8	PCIe x8
PCI Slots (I/O) FH = Full Height; **HH** = Half Height **FL** = Full Length; **HL** = Half Length	1x PCIe True x16 [FH/HL]	only with riser x16 slot FH (1x8 Gen3) x8 Slot LP (1x4 Gen3)	**2x PCIe:** 1x PCIe x8 (x4) [HH/HL] + 1x PCIe x16 [FH/HL]	2xPCIe: x16 slot FH (1x8 Gen3) x8 Slot LP (1X4 Gen3)	**1CPU:** 1x PCIe x8 (x4) [HH/HL] + 1x PCIe x16 [FH/HL] **2CPU:** 1x PCIe x16 [HH/HL] + 1x PCIe x16 [FH/HL]	**1CPU:** 1x PCIe x8 (x4) [HH/HL] + 1x PCIe x16 [FH/HL] **2CPU:** 1x PCIe x16 [HH/HL] + 1x PCIe x16 [FH/HL]
External Storage	H810 (PCIe) SAS 6Gbps (PCIe)	H830 12Gbps SAS HBA	H810 (PCIe) SAS 6Gbps (PCIe) FC HBAs (PCIe)	H830 12Gbps SAS HBA	H830 12Gbps SAS HBA	H830 12Gbps SAS HBA
Internal Back-up	External only	External only	External only	External only	External only	External only
LAN on Motherboard	2x GbE (Broadcom 5720)	Broadcom 5720	2x GbE (Broadcom 5720)	Broadcom 5720	4x 1GbE LOM	4x 1GbE LOM
DRAC	Optional iDRAC7	Optional iDRAC8	Optional iDRAC7	Optional iDRAC8	Optional iDRAC8	Optional iDRAC8
Redundant Power Supply	No	No	Yes, Optional	No	Yes, Optional	Yes, Optional
PSU Options	250W (non hot swap)	250W (non hot swap)	350W (single non hot swap) / 350W (redundant hot swap); (550W Rdnd RTS+)	350W Redundant PSU	450W, 550W PSU	495W, 750W, 1100W Hot-plug PSU / 450W PSU Cabled
System Fans	2 fans non hot swap + 1 optional fan for PCIe card (riser)	3 fans non hot swap + 1 optional fan for PCIe card (riser)	4 or 5 fans non hot swap (based on PSU config)	3 fans non hot swap + 1 optional fan for PCIe card (riser)	4 to 6 fans non hot swap (based on PSU/CPU config)	4 to 6 fans non hot swap (based on PSU/CPU config)
USB Ports	2 front + 2 rear + 1 internal	2 front + 2 rear + 1 internal	2 front + 2 rear + 1 internal	2 front + 2 rear + 1 internal	2 front + 2 rear + 1 internal	2 front + 2 rear + 1 internal
Operating Systems	Windows 2008/2012 RedHat; SuSe Linux VMware ESX/ESXi	Windows 2008/2011 RedHat; SuSe Linux VMware ESX/ESXi	Windows 2008/2012 RedHat; SuSe Linux VMware ESX/ESXi	Windows 2008/2013 RedHat; SuSe Linux VMware ESX/ESXi	Windows 2008/2012 SP2 R2 RedHat; SuSe Linux VMware ESX/ESXi	Windows 2008/2012 SP2 R2 RedHat; SuSe Linux VMware ESX/ESXi

DELL POWEREDGE SERVER COMPARISON CHART
Rack Servers

RACK OPTIMIZED POWEREDGE SERVERS	Intel Processor Technology 2-socket (2S) **PowerEdge R630**	Intel Processor Technology 2-socket (2S) **PowerEdge R730**	Intel Processor Technology 2-socket (2S) **PowerEdge R730xd**	Intel Processor Technology 4-socket (4S) **PowerEdge R820**	Intel Processor Technology 4-socket (4S) **PowerEdge R930**
Competitors	x3550 M5 (Lenovo System X), RD550 (Lenovo TS)	x3650 M5, x3650 M4 HD, x3650 M4 BD (Lenovo System X), RD650 (Lenovo TS)	x3650 M5 (Lenovo System X)	x3750 M4 (Lenovo System X)	x3850 X6 (Lenovo System X)
	DL360 Gen9 (HP)	DL380 Gen9 (HP)	DL380 Gen9 (HP)	DL560 Gen8 (HP)	DL580 Gen9 (HP)
Rack Height	1U	2U	2U	2U	4U
Chipset	Intel C610 Series Chipset	Intel C610 Series Chipset	Intel C610 Series Chipset	Intel C602 Patsburg-J	Intel® C602J Patsburg-J Peripheral Control Hub (PCH)
FSB / HT / Interconnect	QPI @ 9.6 GT/s	QPI @ 9.6 GT/s	QPI @ 9.6 GT/s	QPI @ 8.0 GT/s	
Processors	1x/2x Xeon E5-2600 v3 "Haswell"	1x/2x Xeon E5-2600 v3 "Haswell"	1x/2x Xeon E5-2600 v3 "Haswell"	2x/4x Xeon E5-4600v2 "IvyBridge-EP4S" 2x/4x Xeon E5-4600 "SandyBridge-EP4S"	2x/4x Intel Xeon E7 4800v3/8800v3 series processors Haswell-EX
Memory	Up to 1536 GB | 24 Slots | up to 2133MT/s	Up to 1536 GB | 24 Slots | up to 2133MT/s	Up to 1536 GB | 24 Slots | up to 2133MT/s	Up to 3TB | 48 Slots | up to 1866MT/s	Up to 6TB | 96 Slots | up to 2133MT/s
Hard Drives	Up to 24x 1.8" SSD Up to 10x 2.5" HDD Up to 8x 2.5" HDD	Up to 16x 2.5" or 8x 3.5" Hot plug or 8x 2.5"	24x 2.5" + Opt. Rear 2x 2.5" Hot plug or 24x 2.5" + 4 PCIe SSD + Opt. Rear 2x 2.5" Hot plug or 18x 1.8" + 8x 3.5" + 2x 2.5" Hot plug or 12x 3.5" + Opt. Rear 2x 2.5" Hot plug or 12 + 12 2.5" Hot plug	Up to 16x 2.5" Hot plug or 8x 2.5" + 4x PCIe SSD	Up to 24x 2.5" Hot-plug 12Gb/6Gb SAS HDD or SAS/SATA SSD Up to 8 front-accessible Express Flash NVMe PCIe SSD (PCIe 3.0)
Internal HD / RAID Controller	PERC S130, H330, H730, H730p	PERC S130, H330, H730, H730p	PERC S130, H330, H730, H730p	PERC H310, H710, H710p	PERC H330, PERC H730P
Integrated Slot	PCIe x8	PCIe x8	PCIe x8	PCIe x8	PCIe x8/ PCIe x16
PCI Slots (I/O) FH = Full Height; HH = Half Height FL = Full Length; HL = Half Length	**3PCI:** 2x PCIe x16 [HL/LP] + 1x PCIe x16(x8) [HL/LP] or **2PCI:** 1x PCIe x16 [FH / 3/4L] + 1x PCIe x16 [HL/LP]	7x PCIe: 1x PCIe x16 [FH/FL] + 3x PCIe x8 [FH/FL] + 3x PCIe x8 [HH/HL]	6x PCIe: 2x PCIe x16 [FH/FL] + 1x PCIe x8 [FH/FL] + 3x PCIe x8 [HH/HL]	6x PCIe: 2x PCIe x16 [FH/HL] + 1x PCIe x8 [FH/HL] + 3x PCIe x8 [HH/HL]	8x PCIe or 6x PCIe + 4x PCIe via add'l Risers
External Storage	PERC H830 (PCIe) SAS 12Gbps (PCIe)	PERC H830 (PCIe) SAS 12Gbps (PCIe)	PERC H830 (PCIe) SAS 12Gbps (PCIe)	PERC H810 (PCIe) SAS 6Gbps (PCIe) FC HBAs (PCIe)	PERC H830 (PCIe) SAS 12Gbps HBA (PCIe)
Internal Back-up	External only	RD1000 (on 2.5" chassis only)	External only	RD1000	External only
LAN on Motherboard	Configurable rNDC	Configurable rNDC	Configurable rNDC	Configurable rNDC	Configurable rNDC
DRAC	iDRAC8 Express/Enterprise, opt. vFlash	iDRAC8 Express/Enterprise, opt. vFlash	iDRAC8 Express/Enterprise, opt. vFlash	iDRAC7 Express/Enterprise, opt. vFlash	iDRAC8 Express/Enterprise, opt. vFlash
Redundant Power Supply	Yes, Optional	Yes, Optional	Yes, Optional	Yes, Optional	Yes, up to 4x PSU
PSU Options	495W/750W/1100W AC 750W/1100W DC (hot swap)	495W/750W/1100W AC/1100W DC (hot swap)	495W/750W/1100W AC/1100W DC (hot swap)	750W/1100W AC/1100W DC (hot swap)	750W/1100W AC/1100W DC (hot swap)
System Fans	7 fans, hot swap, single-rotor	6 fans, hot swap, redundant	6 fans, hot swap, redundant	6 hot swap, redundant	6 hot swap, redundant
USB Ports	2 front + 2 rear + 1 internal	Up to 2 front + 2 rear + 1 internal	1 front + 2 rear + 1 internal	2 front + 2 rear + 1 internal	2 front (2.0) + 2 rear (2.0) + 1 internal (2.0)
Operating Systems	Windows 2008/2012 RedHat; SuSe Linux VMware ESX/ESXi	Windows 2008/2012 RedHat; SuSe Linux VMware ESX/ESXi	Windows 2008/2012 RedHat; SuSe Linux VMware ESX/ESXi	Windows 2008/2012 RedHat; SuSe Linux VMware ESX/ESXi	Microsoft® Windows Server® 2008 R2/2012/2012 R2 Red Hat & SuSe® Enterprise Linux VMware ESX / ESXi

DELL POWEREDGE SERVER COMPARISON CHART
Tower Servers

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TOWER POWEREDGE SERVERS	Intel Processor Technology 1-socket (1S)	Intel Processor Technology 1-socket (1S)	Intel Processor Technology 1-socket (1S)	Also available in 5U rack form factor Intel Processor Technology 1-socket (1S)	Also available in 5U rack form factor Intel Processor Technology 1-socket (1S)	Also available in 5U rack form factor Intel Processor Technology 2-socket (2S)	Also available in 5U rack form factor Intel Processor Technology 2-socket (2S)
	PowerEdge T20	**PowerEdge T110 II**	**PowerEdge T130**	**PowerEdge T320**	**PowerEdge T330**	**Poweredge T430**	**Poweredge T630**
Competitors	N/A	x3100 M5, (Lenovo System X), TS140 (Lenovo TS)		TS440 (Lenovo TS)		x3300 M4 (Lenovo System X), T340 (Lenovo TS)	x3500 M5 (Lenovo System X), TD350 (Lenovo TS)
	MicroServer Gen8 (HP)	ML10 (HP)	ML30 Gen9 (HP)	ML310e Gen8 v2 (HP)	ML110 Gen9 (HP)	ML150 Gen9 (HP)	ML350 Gen9 (HP)
Chipset	Intel C226 Lynx Point	Intel C202 Cougar Point	Intel C236	Intel C602 Patsburg-J	Intel C236	Intel C610 Series Chipset	Intel C610 Series Chipset
FSB / HT / Interconnect	DMI @ 5.0 GT/s	DMI @ 5.0 GT/s	Intel DMI 3.0	QPI @ 8.0 GT/s	Intel DMI 3.0	QPI @ 9.6 GT/s	QPI @ 9.6 GT/s
Processors	Xeon E3-1200v3 "Haswell" (E3-1225v3) Pentium "Haswell" (G3220)	Xeon E3-1200 Series "SandyBridge" Xeon E3-1200v2 Series "IvyBridge" Core i3/Celeron/Pentium "Sandy-/IvyBridge"	Intel® Xeon® processor E3-1200 v5 product family Intel® Core™ i3-6100 product family Intel® Pentium® processors	Xeon E5-2400v2 "IvyBridge-EN" Xeon E5-2400 "SandyBridge-EN" Xeon E5-1400 "SandyBridge-EN" Intel Pentium 1400 "SandyBridge-DT"	Intel® Xeon® processor E3-1200 v5 product family Intel® Core™ i3-6100 product family Intel® Pentium® processors	1x/2x Xeon E5-2600 v3 "Haswell"	1x/2x Xeon E5-2600 v3 "Haswell"
Memory	Up to 32GB | 4 Slots | up to 1600MT/s	Up to 32GB | 4 Slots | up to 1600MT/s	Up to 64GB | 4 Slots | 2133MHz	Up to 192GB | 6 Slots | up to 1600MT/s	Up to 64GB | 4 Slots | 2133MHz	Up to 384GB | 12 Slots | up to 2133MT/s	Up to 1536 GB | 24 Slots | up to 2133MT/s
Hard Drives	4x 3.5" Cabled or 4x 3.5" + 2x 2.5" Cabled (via expansion kit)	6x 2.5" Cabled or 4x 3.5" Cabled	4x 3.5" Cabled	16x 2.5" Hot plug or 8x 3.5" Hot plug or 4x 3.5" Cabled	8x HP 3.5-inch or 8x 2.5" HP (in 3.5" carrier)	16x 2.5" Hot plug or 8x 3.5" Hot plug or 4x 3.5" Cabled	Up to 32x 2.5" or Up to 8x 3.5" Hot plug or 18x 3.5" Hot plug or 16+16 2.5" Hot plug or 16x 2.5" Hot plug or 12x 2.5"/8x 3.5" + 4x PCIe SSD
Internal HD / RAID Controller	Intel Rapid Storage Controller 12.X	Optional S100, S300, H200	PERC S130, H330, H730, H830	Optional S110, H310, H710, H710p	PERC S130, H330, H730, H830	PERC S130, H330, H730, H730p	PERC S130, H330, H730, H730p
Integrated Slot	n/a	n/a	n/a	n/a	n/a	n/a	n/a
PCI Slots (I/O)	**4x PCIe:** 1x PCIe x16 [FH / HL] + 1x PCIe x1 [FH / HL] + 1x PCIe 32/33 [FH / HL] + 1x PCIe x16 (x4) [FH / HL]	**4x PCIe:** 1x PCIe x8 [FH/HL] + 1x PCIe x16 (x8) [FH/FL] + 1x PCIe x8 (x4) [FH/HL] + 1x PCIe x1 [FH/HL]	1x8 Gen3 (x16 connector) FH/HL 1x4 Gen3 (x8 connector) FH/HL 1x4 Gen3 (x8 connector) FH/HL 1x1 Gen3 (x1 connector) FHHL	**Max 5x PCIe:** via PCH: x8 (x4) [FH/HL] + x8 (x1) [FH/FL]; via **CPU:** x16 [FH/FL] + x8 (x4) [FH/FL] + x8 (x4) [FH/HL]	Up to 4 PCIe Gen 3	**Up to 6x PCIe (with 2 CPUs):** 4x PCIe 3.0 16x 8x 1x [FH/FL] + 2x PCIe 2.0 8x [FH/FL]	**Up to 7x PCIe (with 2 CPUs):** 4x PCIe x16 [FH/FL] + 2x PCIe x8 (x4) [FH/FL] + 1x PCIe x8 [FH/HL]
External Storage	n/a	SAS 6Gbps (PCIe)	PERC H830 (PCIe) SAS 12Gbps (PCIe)	PERC H810 (PCIe) SAS 6Gbps (PCIe)	PERC H830 (PCIe) SAS 12Gbps (PCIe)	PERC H830 (PCIe) SAS 12Gbps (PCIe)	PERC H830 (PCIe) SAS 12Gbps (PCIe)
Internal Back-up	No	RD1000; LTO3	No	RD1000; LTO-3, LTO-4; LTO-5	No	RD1000; LTO-4, LTO-5, LTO-6	RD1000; LTO-4, LTO-5, LTO-6
LAN on Motherboard	1x GbE (Intel I217LM)	1x GbE (Broadcom 5722)	2x GbE (Broadcom 5720)	2x GbE (Broadcom 5720)	2x GbE (Broadcom 5720)	2 x 1GbE LOMs	2x GbE (Intel i350-AM2)
DRAC	No	No	No	Optional iDRAC7	No	iDRAC8 Express/Enterprise, opt. vFlash	iDRAC8 Express/Enterprise, opt. vFlash
Redundant Power Supply	No	No	No	Yes, Optional	No	Yes, Optional	Yes, Optional
PSU Options	290W (non hot swap)	305W (non hot swap)	290W (non hot swap)	495W/750W (single/redundant hot swap) / 350W (single cabled)	350W cable or HP redundant	495W, 750W, 1100W PSU; 450W cabled non-redundant PSU	495W/750W/1100W/1600W AC/1100W DC (hot swap)
System Fans	1 system fan, non hot swap, non redundant	1 system fan, non hot swap, non redundant	1 system fan, non hot swap, non redundant	1 to 2 fans non hot swap / redundant (based on the config)	1 system fan, non hot swap, non redundant	2 fans, hot swap / redundant + PSU fan / based on config	6 fans, hot swap, redundant
USB Ports	4 front + 6 rear + 2 internal	2 front + 4 rear + 2 internal	3 front + 6 rear + 1 internal	2 front + 6 rear + 1 internal	2 front + 6 rear + 1 internal	2 front + 6 rear + 1 internal	2 front + 6 rear + 1 internal
Operating Systems	Windows 2012 RedHat	Windows 2008 / 2012 RedHat; SuSe Linux VMware ESX/ESXi DL ver.	Windows 2008 / 2013 RedHat; SuSe Linux VMware ESX/ESXi DL ver.	Windows 2008 / 2012 RedHat; SuSe Linux VMware ESX/ESXi	Windows 2008 / 2013 RedHat; SuSe Linux VMware ESX/ESXi DL ver.	Windows 2008 / 2012 RedHat; SuSe Linux VMware ESX / ESXi	Windows 2008 / 2012 RedHat; SuSe Linux VMware ESX / ESXi

DELL POWEREDGE SERVER COMPARISON CHART
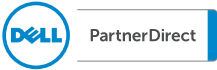## Blade Optimized Servers

BLADE-BASED POWEREDGE SERVER NODES

Fit infrastructure to the job with modular server, storage and networking blocks that are neatly combined in a converged 2U rack chassis.

	Enclosure for Blade-based server nodes	Intel Processor Technology 4-Socket (microservers)	Intel Processor Technology 2-socket (2S)	Intel Processor Technology 2-socket (2S)	Intel Processor Technology 4-socket (4S)	Storage Block 16 SFF drives
	PowerEdge FX2	**PowerEdge FM120x4**	**PowerEdge FC630**	**PowerEdge FC430**	**PowerEdge FC830**	**PowerEdge FD332**
Competitors	UCS M4308 (Cisco)					
	TwinPro2 and Twin3 (SuperMicro)					
	NeXtScale System M4 (Lenovo System X)					
	Moonshot (HP)					
Chassis	2U Rack	Require PowerEdge FX2 enclosure				
Blade Enclosure Slots	2 Full, 4 Half, 8 Quarter Height Slots	1 Slot (Half Height)	1 Slot (Half Height)	1 Slot (Quarter Height)	1 Slot (Full Height)	1 Slot (Half Height)
Chipset	–	–	Intel C610 Wellsburg	Intel C610 Wellsburg	Intel C610 Wellsburg	–
FSB / HT / Interconnect	–	–	QPI @ 9.6 GT/s	QPI @ 9.6 GT/s	QPI @ 9.6 GT/s	–
Processors	–	4x Intel C2000 Atom processor	1x/2x Xeon E5-2600v3 "Haswell"	1x/2x Xeon E5-2600v3 "Haswell"	2x/4x Xeon E5-4600v3 "Haswell"	–
Memory	–	Up to 64GB | 8 Slots | up to 1600MT/s	Up to 1536GB | 24 Slots | up to 2133MT/s	Up to 256GB | 8 Slots | up to 2133MT/s	Up to 3TB | 48 Slots | up to 2133MT/s	–
Hard Drives	–	4x 2.5" HDD/SSD Hot plug	2x 2.5" HDD/SSD Hot plug	2x 1.8" SSD Hot plug	8x 2.5" or 6 x 2.5" + 2 PCIe SSDs	up to 16x 2.5" SFF HDD/SSD
	–	8x 1.8" SSD Hot plug	8x 1.8" SSD Hot plug	1x 1.8" SSD Hot plug + Infini Band Mezz	16x 1.8" SSD Hot plug	min 8 HDD/SSD per platform
Internal HD / RAID Controller	–	SW RAID	PERC S130, H330, H730, H730p, SlimPERC	PERC S130	PERC S130, H330, H730, H730p	FD33xS, FD32xD (dual PERC)
DRAC	Redundant CMC	iDRAC per C2000	iDRAC8 Express/Enterprise, opt. vFlash	iDRAC8 Express/Enterprise, opt. vFlash	iDRAC8 Express/Enterprise, opt. vFlash	–
NIC/LOM	8 PCIe slots or unswitched FX2 config	2x 1Gb LOMs to the	Configurable NDC	BCOM 57810 DP 10Gb or Intel i350 DP 1Gb	Configurable NDC	–
I/O Slots		1GbE fabric A IO Pass-Through module	Access to 2x PCIe 3.0 (x8) expansion slots	Access to 1x PCIe 3.0 (x8) expansion slots	Access to 4x PCIe 3.0 (x8) expansion slots	–
PSU Options	1600W, 2000W or 1100W / redundant or nonredundant	Powered via FX2 chassis				
USB Ports	1 front	1 front	1 front	1 front	1 front	–
Operating Systems	–	Windows 2012 / 2012R2 RedHat, SuSe Linux VMware ESXi	Windows 2012 / 2012R2 RedHat, SuSe Linux –	Windows 2012 / 2012R2 RedHat, SuSe Linux VMware ESXi	Windows 2012 / 2012R2 RedHat, SuSe Linux VMware ESXi	–

DELL POWEREDGE SERVER COMPARISON CHART
Blade Optimized Servers

DELL PartnerDirect

intel XEON inside

BLADE-BASED POWEREDGE SERVER NODES	Enclosure for Blade-based server nodes	Intel Processor Technology 2-socket (2S)	Intel Processor Technology 4-socket (4S)	Intel Processor Technology 2-socket (2S)	Intel Processor Technology 2-socket (2S)
Integrates servers, storage, networking and management in a compact shared infrastructure optimized for office environments.	**PowerEdge VRTX**	**PowerEdge M630P**	**PowerEdge M830P**	**PowerEdge M520P**	**PowerEdge M820P**
Competitors	Mini UCS (Cisco)				
	BladeSystem C3000 (HP)				
Chassis	Tower / 5U Rack	Require PowerEdge VRTX blade enclosure			
Blade Enclosure Slots	4 Half Height Slots	1 Slot (Half Height)	2 Slots (Full Height)	1 Slot (Half Height)	2 Slots (Full Height)
Chipset	–	Intel C610 Wellsburg	Intel C610 Wellsburg	Intel C602 Patsburg-J	Intel C602 Patsburg-J
FSB / HT / Interconnect	–	QPI @ 9.6 GT/s	QPI @ 9.6 GT/s	QPI @ 8.0 GT/s	QPI @ 8.0 GT/s
Processors	–	1x/2x Xeon E5-2600v3 "Haswell"	2x/4x Xeon E5-4600v3 "Haswell"	1x/2x Xeon E5-2400v2 "IvyBridge-EN" 1x/2x Xeon E5-2400 "SandyBridge-EN"	2x/4x Xeon E5-4600v2 "IvyBridge-EP4S" 2x/4x Xeon E5-4600 "SandyBridge-EP4S"
Memory	–	Up to 768GB | 24 Slots | up to 2133MT/s	Up to 3 TB | 48 Slots | up to 2133MT/s	Up to 384GB | 12 Slots | up to 1600MT/s	Up to 3TB | 48 Slots | up to 1866MT/s
Hard Drives	Up to 25x 2.5" or 12x 3.5" shared Hot plug	2x 2.5" Hot plug	4x 2.5" or 2x 2.5" + 2 PCEi SSDs	2x 2.5" Hot plug	4x 2.5" Hot plug or 2x 2.5" + 2x PCIe SSD
		4x 1.8" Hot plug	12x 1.8" SSD Hot plug	–	–
Internal HD / RAID Controller	Shared PERC8, Dual PERC8	PERC S130, H330, H730, H730p	PERC S130, H330, H730, H730p	PERC S110, H310, H710, H710p	PERC H310, H710, H710p
DRAC	Redundant CMC	–	iDRAC8 Express/Enterprise, opt. vFlash	iDRAC7 Express, Enterprise, opt. vFlash	iDRAC7 Express, Enterprise, opt. vFlash
NIC/LOM	1 IOM + 8 PCIe slots (Ethernet/GPU)	Configurable NDC	Configurable NDC	4x GbE (2x Broadcom 5720)	Configurable NDC
I/O Slots		–	–	–	–
PSU Options	Up to 4x 1100W or 1600W (hot swap/redundant)	Powered via VRTX chassis			
USB Ports	2 front	2 front + 1 internal	3 front + 2 internal	2 front + 1 internal	3 front + 2 internal
Operating Systems	–	Windows 2012 / 2012R2 RedHat, SuSe Linux VMware ESXi	Windows 2012 / 2012R2 RedHat, SuSe Linux VMware ESXi	Windows 2012 / 2012R2 RedHat, SuSe Linux VMware ESXi	Windows 2012 / 2012R2 RedHat, SuSe Linux VMware ESXi

DELL POWEREDGE SERVER COMPARISON CHART
Blade Optimized Servers

DELL PartnerDirect   intel XEON inside

BLADE POWEREDGE SERVERS	Enclosure for standard blade servers	Intel Processor Technology 2-socket (2S)	Intel Processor Technology 4-socket (4S)	Intel Processor Technology 2-socket (2S)	Intel Processor Technology 4-socket (4S)
Integrating server, storage and networking in a 10U chassis perfect for large scale converged infrastructure environment.	**PowerEdge M1000e**	**PowerEdge M630**	**PowerEdge M830**	**PowerEdge M520**	**PowerEdge M820**
Competitors	B5108 (Cisco)	B200 M4 (Cisco)	B460 M4 (Cisco)	B22 M3 (Cisco)	B420 M3 (Cisco)
	BladeSystem C7000 (HP)	BL460c Gen9 (HP)	BL660c Gen9 (HP)	BL420c Gen8 (HP)	BL660c Gen8 (HP)
Chassis	10U Rack	Require PowerEdge M1000e blade enclosure			
Blade Enclosure Slots	16 Half Height Slots (max 32 QH blades)	1 Slot (Half Height)	2 Slots (Full Height)	1 Slot (Half Height)	2 Slots (Full Height)
Chipset	–	Intel C610 Wellsburg	Intel C610 Wellsburg	Intel C602 Patsburg-J	Intel C602 Patsburg-J
FSB / HT / Interconnect	–	QPI @ 9.6GT/s	QPI @ 9.6GT/s	QPI @ 8.0 GT/s	QPI @ 8.0 GT/s
Processors	–	1x/2x Xeon E5-2600v3 "Haswell"	2x/4x Xeon E5-4600v3 "Haswell"	1x/2x Xeon E5-2400v2 "IvyBridge-EN" 1x/2x Xeon E5-2400 "SandyBridge-EN"	2x/4x Xeon E5-4600v2 "IvyBridge-EP4S" 2x/4x Xeon E5-4600 "SandyBridge-EP4S"
Memory	–	Up to 768GB | 24 Slots | up to 2133MT/s	Up to 3 TB | 48 Slots | up to 2133MT/s	Up to 384GB | 12 Slots | up to 1600MT/s	Up to 3TB | 48 Slots | up to 1866MT/s
Hard Drives	–	2x 2.5" Hot plug	4x 2.5" or 2 x 2.5" + 2 PCEi SSDs	2x 2.5" Hot plug	4x 2.5" Hot plug or 2x 2.5" + 2x PCIe SSD
	–	4x 1.8" Hot plug	12x 1.8" SSD Hot plug	–	–
Internal HD / RAID Controller	–	PERC S130, H330, H730, H730p	PERC S130, H330, H730, H730p	PERC S110, H310, H710, H710p	PERC H310, H710, H710p
DRAC	Redundant CMC	iDRAC8 Express/Enterprise, opt. vFlash	iDRAC8 Express/Enterprise, opt. vFlash	iDRAC7 Express, Enterprise, opt. vFlash	iDRAC7 Express, Enterprise, opt. vFlash
NIC/LOM	6 IOMs (Ethernet/FC/Infiniband)	Configurable NDC	Configurable NDC	4x GbE (2x Broadcom 5720)	Configurable NDC
I/O Slots		2 mezzanine slots	4 mezzanine slots	2 mezzanine slots	4 mezzanine slots
PSU Options	Up to 6x 2700W or 3000W (hot swap/redundant)	Powered via M1000e chassis			
USB Ports	2 front, 2 rear via iKVM	2 front + 1 internal	3 front + 2 internal	2 front + 1 internal	3 front + 2 internal
Operating Systems	–	Windows 2012 / 2012R2 RedHat, SuSe Linux VMware ESXi	Windows 2012 / 2012R2 RedHat, SuSe Linux VMware ESXi	Windows 2012 / 2012R2 RedHat, SuSe Linux VMware ESXi	Windows 2012 / 2012R2 RedHat; SuSe Linux VMware ESXi

DELL POWEREDGE SERVER COMPARISON CHART
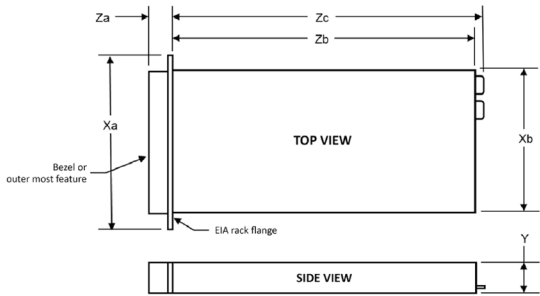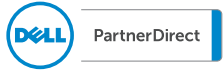## Cloud Optimized Servers

CLOUD OPTIMIZED POWEREDGE SERVERS	PowerEdge C4130	Intel Processor Technology 2-socket (2S) PowerEdge C6220 II	Intel Processor Technology 2-socket (2S) PowerEdge C6320
Competitors	HP SL6500	SuperMicro TwinPro2 and Twin3	SuperMicro TwinPro2 and Twin3
	Supermicro 1028 GR-TR/2028GR-TR	HP ProLiant SL2500/Apollo	HP ProLiant SL2500/Apollo
Server Type	Monolithic	Shared Infrastructure	Shared Infrastructure
Chassis/Rack Height	1U	2U	2U
Chassis	–	Up to 4x 1U or 2x 2U server nodes in 2U C6000 chassis	Up to 4x 1U server nodes in 2U C6300 chassis
Chipset	Intel C612 series	Intel C602 Patsburg-J	Intel C612
FSB / HT / Interconnect	QPI @ 9.6GT/s	QPI @ 8.0 GT/s	QPI @ 9.6 GT/s
Processors	1x/2x Xeon E5-2600v3 "Haswell"	Each server node: 1x/2x Xeon E5-2600v2 "IvyBridge-EP"	Each server node: 1x/2x Xeon E5-2600v3 "Haswell"
Memory	Up to 256GB | 16 Slots | up to 2133MT/s	Each node: Up to 512GB | 16 Slots	Each node: Up to 512GB | 16 Slots
Hard Drives	2x 1.8" uSATA SSD + up to 4x 2.5" Cabled	**4-node:** 6x 2.5" or 3x 3.5" Hot plug per node **2-node:** 12x 2.5" or 6x 3.5" Hot plug per node	**4-node:** 6x 2.5" or 3x 3.5" Hot plug per node
Storage Controller	PERC H330	Each node: Optional LSI2008 Mezz, LSI9210-8i, LSI9265-8i	Each node: Optional LSI2008 Mezz, PERC H330, H730 (RTS+)
Server Management	iDRAC8 Express / Enterprise	BMC, IPMI 2.0	iDRAC 8 (Express, Enterprise)
I/O Slots	2x PCIe 3.0 LP Optional 96-lane PCIe 3.0 switch	Each server node: 1U sled: 1x PCIe x16 [HH/HL] + 1x PCIe x8 Mezz (2CPU); 2U sled: 2x PCIe x16 [FH/HL] + 1x PCIe x8 Mezz (2CPU)	Each server node: 1 x PCIe x16 Gen3 (Half Height, Half Length) + 1 x PCIe x8 Gen3 (mezzanine)
LAN on Motherboard	2x 1GbE LOM	Each node: 2x GbE (Intel i350)	Each node: 2x 10GbE (SFP+), Intel 82599ES
PSU Options	1600W Hot plug PSU, redundant available	1000-1200W/1400W redundant hot swap	1400W/1600W redundant hot swap
System Fans	8 fans, non hot swap	4 shared fans, non redundant non hot swap	4 shared fans, non redundant non hot swap
USB Ports	2 rear, 1 internal	Each server node: 2x rear	Each server node: 1x rear

DELL POWEREDGE SERVER COMPARISON CHART
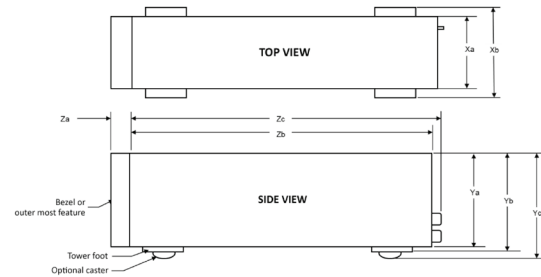## Dimensions and Weight

TOP VIEW

SIDE VIEW

Bezel or outer most feature

EIA rack flange

RACK OPTIMIZED POWEREDGE SERVERS	SYSTEM									SHIPPING BOX	
	Xa	Xb	Y	Za (with bezel)	Za (without bezel)	Zb [1]	Zc	Max Sys Weight	Chassis U	Dimensions (LxWxH)	Weight [2]
R210 II	482.6 mm	434.0 mm	42.4 mm	35.0 mm	n/a	390.7 mm	394.3 mm	8.05 kg (17.76 lbs)	1U	635 x 610 x 273 mm	8.058 kg (17.76 lbs)
R220	482.0 mm	434.0 mm	42.4 mm	35.0 mm	20.1 mm	390.7 mm	394.3 mm	8.05 kg (17.76 lbs)	1U	636 x 610 x 273 mm	8.058 kg (17.76 lbs)
R320	482.4 mm	434.0 mm	42.8 mm	35.0 mm	21.0 mm	607.0 mm	625.2 mm (cbl PSU) 642.3 mm (rdnd PSU)	19.3 kg (42.55 lbs)	1U	908 x 610 x 270 mm	4.66 kg (10.26 lbs)
R415	482.4 mm	434.0 mm	43.0 mm	35.0 mm	20.1 mm	606.0 mm	641.9 mm	15.9 kg (35.05 lbs)	1U	864 x 610 x 279 mm	3.4 kg (7.49 lbs)
R420	482.4 mm	434.0 mm	42.8 mm	35.0 mm	21.0 mm	607.0 mm	625.2 mm (cbl PSU) 642.3mm (rdnd PSU)	19.9 kg (43.87 lbs)	1U	908 x 610 x 270 mm	4.66 kg (10.26 lbs)
R430	482.4 mm	434.0 mm	42.8 mm	35.0 mm	21.0 mm	607.0 mm	676.92 mm	19.3 (4 bay) 19.9 (8 bay)	1U	908 x 610 x 270 mm	4.66 kg (10.26 lbs)
R515 (8-drive bay chassis)	482.4 mm	436.6 mm	86.4 mm	35.0 mm	21.0 mm	610.2 mm	642.0 mm	22.5 kg (49.6 lbs)	2U	905 x 619 x 327 mm	5.82 kg (12.82 lbs)
R515 (12-drive bay chassis)		445.2 mm	86.8 mm			664.7 mm	697.1 mm	29.0 kg (63.93 lbs)		921 x 619 x 327 mm	5.5 kg (12.13 lbs)
R520	482.4 mm	434.0 mm	86.8 mm	35.0 mm	20.1 mm	611.1 mm	631.7 mm (cbl PSU) 649.1mm (rdnd PSU)	28.2 kg (62.0 lbs)	2U	918 x 614 x 297 mm	3.91 kg (8.61 lbs)
R530	482.4 mm	434.0 mm	86.8 mm	35.0 mm	20.1 mm	611.1 mm	646 mm (PSU handle) 660 mm (to rear wall)	28.2 (8 bay max) 14.2 (empty)	2U	918 x 614 x 297 mm	3.91 kg (8.61 lbs)
R630 (8-drive bay chassis)	482.4 mm	434.0 mm	42.8 mm	35.0 mm	20.4 mm	682.7 mm	701.3 mm	18.6 kg (40.96 lbs)	1U	919 x 616 x 292 mm	4.87 kg (10.73 lbs)
R630 (10-drive bay chassis)						731.0 mm	752.1 mm	19.8 kg (43.56 lbs)		953 x 616 x 292 mm	4.81 kg (10.6 lbs)
R730 (2.5" chassis)	482.4 mm	444.0 mm	87.3 mm	32.0 mm	18.0 mm	684.0 mm	723.0 mm	29.5 kg (64.9 lbs)	2U	918 x 614 x 284 mm	3.81 kg (8.45 lbs)
R730 (3.5" chassis)								29.2 kg (64.3 lbs)			
R730xd (2.5" chassis)	482.4 mm	444.0 mm	87.3 mm	32.0 mm	18.0 mm	684.0 mm	723.0 mm	29.5 kg (64.9 lbs)	2U	918 x 614 x 284 mm	3.81 kg (8.45 lbs)
R730xd (3.5" chassis)								32.5 kg (71.5 lbs)			
R820	482.4 mm	434.0 mm	86.8 mm	35.7 mm	20.4 mm	740.6 mm	777.6 mm	29.5 kg (65.0 lbs)	2U	949 x 619 x 284 mm	4.43 kg (9.8 lbs)
R920	482.4 mm	422.0 mm	172.6 mm	35.0 mm	20.4 mm	726.2 mm	767.3 mm	59 kg (130.1 lbs)	4U	962 x 616 x 505 mm	TBA
R930	482.4 mm	422.0 mm	172.6 mm	35.0 mm	20.4 mm	726.2 mm	767.3 mm	59 kg (130.1 lbs)	4U	962 x 616 x 505 mm	TBA
T320 (rack chassis)	482.4 mm	430.3 mm	218.0 mm	37.2 mm	n/a	538.4 mm	584.1 mm	30.2 kg (66.57 lbs)	5U	789 x 616 x 454 mm	6.72 kg (14.79 lbs)
T430 (rack chassis)	482.4 mm	430.3 mm	218.0 mm	37.2 mm	n/a	538.4 mm	584.1 mm	30.2 kg (66.57 lbs)	5U	789 x 616 x 454 mm	6.72 kg (14.79 lbs)
T630 (rack 2.5" chassis)	482.4 mm	434.5 mm	217.9 mm	37.3 mm	21.4 mm	638.5 mm	671.4 mm	39.9 kg (87.8 lbs)	5U	905 x 619 x 549 mm	6.68 kg (14.7 lbs)
T630 (rack 3.5" chassis)								43.1 kg (94.8 lbs)			
M1000e (chassis only)	482.0 mm	447.5 mm	440.5 mm	44.0 mm	n/a	754.8 mm (rear face)	768.6 mm (fixed) 791.8 mm (to PSU)	44.5 kg (98.1 lbs)	10U	975 x 613 x 802 mm	17.61 kg (38.82 lbs)
M1000e (with rear modules)								79.8 kg (175.9 lbs)			
M1000e (fully loaded)								196.8 kg (433.9 lbs) [3]			
VRTX	482.4 mm	446.3 mm	219.2 mm	34.7 mm	34.5 mm	659.6 mm	695.1 mm	72.4 kg (159.7 lbs)	5U	956 x 635 x 608 mm	19.76 kg (43.56 lbs)

[1] Zb measures to the nominal rear wall external surface where the motherboard I/O connectors reside
[2] Includes system box, option box and other packaging, does not include the actual system; Values as measured at qualification build
[3] Mass measured with eight M820 blades
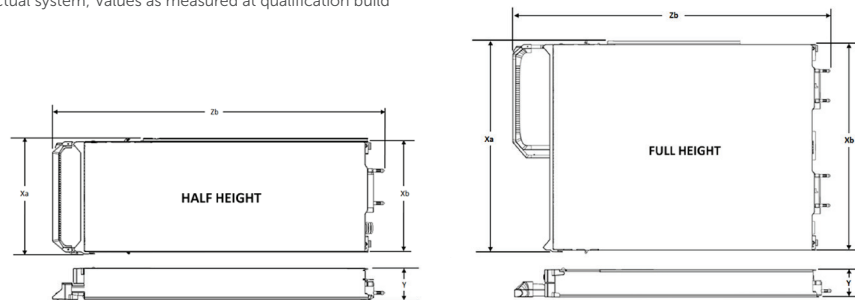
DELL POWEREDGE SERVER COMPARISON CHART
Dimensions and Weight

TOWER POWEREDGE SERVERS	SYSTEM									SHIPPING BOX	
	Xa	Xb	Ya	Yb	Yc	Za (with bezel)	Zb [1]	Zc	Max Sys Weight	Dimensions (LxWxH)	Weight [2]
T20	175.0 mm	n/a	360.0 mm	n/a	n/a	n/a	435.0 mm	n/a	8.5 kg (18.72 lbs)	no info	10.26 kg (22.62 lbs)
T110 II	189.4 mm	n/a	417.9 mm	420.3 mm	n/a	37.5 mm	407.2 mm	426.2 mm	15.5 kg (34.17 lbs)	588 x 565 x 370 mm	2.7 kg (5.94 lbs)
T320	218.0 mm	304.5 mm (foot) 307.9 mm (caster)	430.3 mm	443.3 mm	471.3 mm	16.0 mm	542.2 mm	578.4 mm	29.55 (65.0 lbs)	789 x 616 x 454 mm	6.72 kg (14.79 lbs)
T430	218.0 mm	304.5 mm (foot) 307.9 mm (caster)	430.3 mm	443.3 mm	471.3 mm	16.4 mm	542.2 mm	578.4 mm	30.2 kg (66.57 lbs)	789 x 616 x 454 mm	6.72 kg (14.79 lbs)
T630 (8-drive bay chassis)	217.9 mm	304.5 mm (foot) 307.9 mm (caster)	434.5 mm	443.5 mm	471.5 mm	15.9 mm	659.9 mm	692.8 mm	43.3 kg (95.5 lbs)	905 x 616 x 549 mm	6.68 kg (14.7 lbs)
T630 (16-drive bay chassis)									39.7 kg (87.6 lbs)		
T630 (18-drive bay chassis)									51.0 kg (112.4 lbs)		
T630 (32-drive bay chassis)									41.8 kg (92.2 lbs)		

[1] Zb measures to the nominal rear wall external surface where the motherboard I/O connectors reside
[2] Includes system box, option box and other packaging, does not include the actual system; Values as measured at qualification build
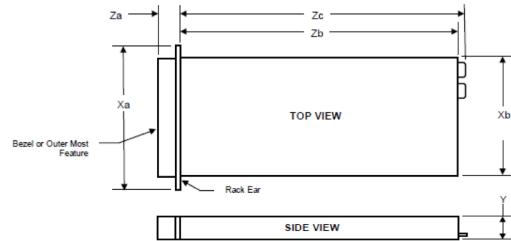

BLADE POWEREDGE SERVERS	SYSTEM						SHIPPING BOX	
	Xa	Xb	Y	Zb (handle closed)	Zb (handle open)	Max Sys Weight	Dimensions (LxWxH)	Weight [1]
M420 (sled only)	97.5 mm	93.8 mm	50.5 mm	501.5 mm	–	2.3 kg (5.07 lbs)	676 x 219 x 202 mm	1.09 kg (2.4 lbs)
M420 (sleeve only)	395.15 mm	385.4 mm	50.35 mm	537.7 mm	537.7 mm	3.0 kg (6.61 lbs)	665 x 616 x 286 mm	2.57 kg (5.66 lbs)
M420 (sleeve and 4 sleds)	395.15 mm	385.4 mm	50.35 mm	537.7 mm	537.7 mm	12.0 kg (26.5 lbs)	665 x 616 x 286 mm	2.57 kg (5.66 lbs)
M520 / M520P	197.92 mm	192.3 mm	50.35 mm	544.32 mm	564.9 mm	5.5 kg (12.1 lbs)	692 x 324 x 260 mm	1.28 kg (2.82 lbs)
M620 / M620P	197.92 mm	192.3 mm	50.35 mm	544.32 mm	564.9 mm	7.0 kg (15.4 lbs)	692 x 324 x 260 mm	1.28 kg (2.82 lbs)
M630 / M630P	197.92 mm	192.3 mm	50.35 mm	544.32 mm	564.9 mm	7.0 kg (15.4 lbs)	692 x 324 x 260 mm	1.28 kg (2.82 lbs)
M820 / M820P	395.2 mm	385.4 mm	50.35 mm	544.95 mm	568.45 mm	14.5 kg (31.9 lbs)	757 x 619 x 298 mm	3.86 kg (8.5 lbs)
M830 / M830P	395.2 mm	385.4 mm	50.35 mm	544.95 mm	568.45 mm	14.5 kg (31.9 lbs)	757 x 619 x 298 mm	3.86 kg (8.5 lbs)

[1] Includes system box, option box and other packaging, does not include the actual system; Values as measured at qualification build
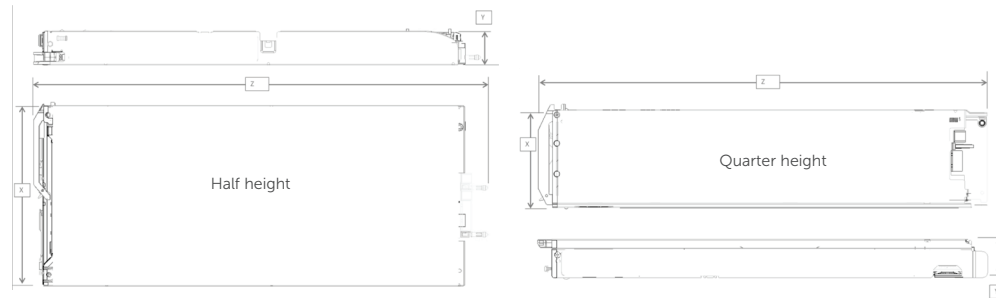
DELL POWEREDGE SERVER COMPARISON CHART
Dimensions and Weight

FX2 POWEREDGE SERVERS	SYSTEM						SHIPPING BOX	
	Xa	Xb	Y	Za (with bezel)	Zb	Zc	Dimensions (LxWxH)	Weight [1]
FX2 (empty)	481.9 mm	433.5 mm	86.8 mm	33.7 (FC430)	815.1 mm	851.6 (PSU); 843 (IO handle); 855.1 (PCIe module)		21.5 kg (47.4 lbs)
FX2 (max)								53.0 kg (116.8 lbs)

Half height

Quarter height

FC430	102.7 mm	x	40.30 mm	480.4 mm				3.0 kg (6.6 lbs)
FC630	211.0 mm	x	40.30 mm	535.80 mm				5.8 kg (12.8 lbs)
FC830	427.6 mm	x	40.30 mm	538.10 mm				13.0 kg (28.7 lbs)
FD332	211.0 mm	x	40.30 mm	519.0 mm				8.6 kg (19.0 lbs)
FM120	211.0 mm	x	40.30 mm	535.80 mm				2.20 kg (4.8 lbs)

[1] Includes system box, option box and other packaging, does not include the actual system; Values as measured at qualification build