DALL	-N 4 (C)			T.L. D#515		_	B Rev. 1.5.0 ing Rev. 2.7.0		
DELLEMC			Dell PowerEdge R7515				Report Date: March 15, 2021		
Total System	n Cost	TPCx-BB Performance Metric				Price/Performance			
753,292 USD			1,544.13 BBQpm@3000			487.85 USD \$/BBQpm@3000			
Framework	Operating Sy	stem	Other Software	Availability Date	Sc	cale Factor	Streams		
Cloudera CDP 7.1.4	SUSE Lin Enterprise Se 12 SP5		None	March 15, 2021		3000	7		
System Configuration									
1xDell EMC PowerEdge R7515 Server (Name Node) w/ • AMD EPYC 7763 64C 2450 MHz • 512GB Mem • 2x447GB RAID0 SSD + • 2 x 240GB, RAID, SSD Dell BOSS (OS) • Broadcom 25GbE NIC									

Dell S5048F-ON 100/25 GbE Switch

10xDell EMC PowerEdgeR7515 Servers (Data Nodes) each w/

AMD EPYC 7763 64C 2450 MHz,

512GB Mem,

3 x 1.6TB NVMe +

2x240GB,RAID1, SSD Dell BOSS (OS)Broadcom 25GbE NIC

Physical Storage/Scale Factor: 18.08	Scale Factor/Physical Memory: 0.53	Main Data Redundancy Model: 3-way replication			
Servers: Total Processors/Cores/Threads	11x PowerEdge R7515 / PowerEdge R7515 11/704/1,408				
Server Configuration: Processors Memory Storage Controller Storage Device Network Controller	1x PowerEdge R7515 (Name Node): 1x AMD EPYC 7763 64-Core Processor 512 GiB HBA330 12Gbps SAS HBA 2x 240 GB BOSS M.2 SSD 2x 480 GB SATA SSD Broadcom 25 GbE NIC	10x PowerEdge R7515 (Data Node): 1x AMD EPYC 7763 64-Core Processor 512 GiB n/a 2x 240 GB BOSS M.2 SSD 3x 1.6 TB NVMe+ Broadcom 25 GbE NIC			
Connectivity:	Dell S5048F-ON 100/25 GbE Switch	•			



TPCx-BB Rev. 1.5.0 TPC-Pricing Rev. 2.7.0

Report Date: March 15, 2021

NAME ProwerEdge R7515 - Worker Nodes 1	Description	Part Number	Source	Unit Price Qty	Extended Price	3 Yr. Maint. Price
2.5 Chassis	HARDWARE COMPONENTS					
NYME Backplane PowerEdge R7515 Server PowerEdge R7515 Shipping PowerEd	PowerEdge R7515 -Worker Nodes		1	\$61,361.38 10	\$613,613.80	
No Trusted Platform Module	2.5 Chassis	379-BDTF	1	10		
10 10 10 10 10 10 10 10	NVMe Backplane	379-BDSX	1	10		
1.5.** Chassis with up to 24 NVMe Drives 321-BERW 1	PowerEdge R7515 Server	210-ASVQ	1	10		
AMD 7763 2.4SGHz,64C/128T,256M,280W,3200 ASTACL PASE 1 10 Performance Optimized 170-AMP 1 10 ASTO-AMP 1 10 ASTO-AWR 1 1 10	No Trusted Platform Module	461-AADZ	1	10		
Standard Heatsink 412-AASE 1	2.5" Chassis with up to 24 NVMe Drives	321-BERW	1	10		
Section Sect	AMD 7763 2.45GHz,64C/128T,256M,280W,3200	338-BZRR	1	10		
10 10 10 10 10 10 10 10	Standard Heatsink	412-AASE	1	10		
250, No RAID for NVME chassis 780-BCDO 1	Performance Optimized	370-AAIP	1	10		
No Controller 405-AACD 1 10 10 10 10 10 10 10 10 10 10 10 10 1	3200MT/s RDIMMs	370-AEVR	1	10		
### PERFORMAND OPTION NOT SELECTED **PERFORMANCE BIOS Settings** **PERFORMANCE BIOS SETTING	C30, No RAID for NVME chassis	780-BCDO	1	10		
DEFI BIOS Boot Mode with GPT Partition 800 BBDM 1	No Controller	405-AACD	1	10		
### BIOS Boot Mode with GPT Partition	CFI,STANDARD OPTION NOT SELECTED	692-BBBB	1	10		
No Additional Mid Fan Dual, Hot-plug, Redundant Power Supply (1+1), 1100W ASSECT Config 2, 2 x 16 FH + 2 x 16 LP PCIe slot 330-BBNL 1 10 DRAC9, Enterprise 15G 385-BBOT 1 10 DRAC9, Enterprise 15G BOWEREdge R7515 Motherboard, With 2x1Gb Onboard LOM (8CM5720) V2 384-BCNQ DrowerEdge R7515 Motherboard, with 2x1Gb Onboard LOM (8CM5720) V2 384-BCNQ DRAC9, Enterprise 15G 350-BBWP 1 10 DRAC9, Enterprise 15G BOSS controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controller card + with 2 M.2 Sticks 240G (RAID 1), FH AU3-BCHP BOSS Controlle	Performance BIOS Settings	384-BBBL	1	10		
Dual, Hot-plug, Redundant Power Supply (1+1), 1100W 450-ADWM 1 10 10 10 10 10 10 10	JEFI BIOS Boot Mode with GPT Partition	800-BBDM	1	10		
Riser Config 2, 2 x 16 FH + 2 x 16 LP PCle slot 330-BBNL 1 10 PowerEdge R7515 Motherboard,MLK 384-BCUN 1 10 DRAC9,Enterprise 15G 385-BBOT 1 10 PowerEdge R7515 Motherboard, with 2x1Gb Onboard LOM (BCM5720) V2 384-BCNQ 1 10 PowerEdge ZU Standard Bezel 350-BBWP 1 10 SOSS controller card + with 2 M.2 Sticks 240G (RAID 1),FH 403-BCHP 1 10 NO Quick Sync 350-BBWD 1 10 DRAC,Legacy Password 379-BCSG 1 10 DRAC,Legacy Password 379-BCSG 1 10 DRAC Group Manager, Enabled 379-BCQV 1 10 Enterprise Linux OS, Non Factory Installed, Requires Subscription 605-BBFL 1 10 NO Media Required 605-BBFN 1 10 NO Internal Optical Drive 429-AAIQ 1 10 NO Systems Documentation, No OpenManage DVD Kit 631-AACK 1 10 PowerEdge R7515 Shipping 340-CMZG 1 10 PowerEdge R7515 Ship Material 340-CODN 1 10 PowerEdge R7515 Ship Material 10 10 PowerEdge R7515 Ship Materi	No Additional Mid Fan	384-BBSO	1	10		
ProwerEdge R7515 Motherboard,MLK DRAC9,Enterprise 15G 385-BBOT 1 10 ProwerEdge R7515 Motherboard, with 2x1Gb Onboard LOM (BCM5720) V2 384-BCNQ 1 10 ProwerEdge 2U Standard Bezel 350-BBWP 1 10 BOSS controller card + with 2 M.2 Sticks 240G (RAID 1),FH 403-BCHP 1 10 NO Quick Sync 350-BBWD 1 10 DRAC,Legacy Password 379-BCSG 1 DRAC,Legacy Password 379-BCSG 1 DRAC Group Manager, Enabled Enterprise Linux OS, Non Factory Installed, Requires Subscription 805-BBFL 1 DRAC Group Manager, Enabled Enterprise Linux OS, Non Factory Installed, Requires Subscription 805-BBFN 1 DRAC Group Manager, Enabled Enterprise Linux OS, Non Factory Installed, Requires Subscription 805-BBFN 1 DRAC Group Manager, Enabled Enterprise Linux OS, Non Factory Installed, Requires Subscription 805-BBFN 1 DRAC GROUP Manager, Enabled Enterprise Linux OS, Non Factory Installed, Requires Subscription 805-BBFN 1 DRAC GROUP Manager, Enabled Enterprise Linux OS, Non Factory Installed, Requires Subscription 805-BBFN 1 DRAC GROUP Manager, Enabled 805-BBFN 1 BRAC GROUP Manager, Enabled 805-BBFN 1	Dual, Hot-plug, Redundant Power Supply (1+1), 1100W	450-ADWM	1	10		
DRAC9, Enterprise 15G 385-BBOT 1 10 10 10 10 10 10 10	Riser Config 2, 2 x 16 FH + 2 x 16 LP PCIe slot	330-BBNL	1	10		
PowerEdge R7515 Motherboard, with 2x1Gb Onboard LOM (BCM5720) V2 384-BCNQ 1 10 PowerEdge 2U Standard Bezel 350-BBWP 1 10 POWEREDGE 2U Standard Bezel 350-BBWP 1 10 POWEREDGE 2U Standard Bezel 350-BBWD 1 10 PRACLEGACY PASSWORD 350-BBKU 1 10 PRACLEGACY PASSWORD 379-BCSG 1 10 PRACLEGACY PASSWORD 1 1	PowerEdge R7515 Motherboard,MLK	384-BCUN	1	10		
PowerEdge 2U Standard Bezel 350-BBWP 1 10 BOO Quick Sync 350-BBKU 1 10 DRAC, Legacy Password 379-BCSG 1 10 DRAC, Legacy Password 379-BCSG 1 10 DRAC Group Manager, Enabled 379-BCQV 1 10 Enterprise Linux OS, Non Factory Installed, Requires Subscription 605-BBFL 1 10 No Media Required 605-BBFN 1 10 No Media Required 605-BBFN 1 10 No Media Required 429-AAIQ 1 10 No Northernal Optical Drive 429-AAIQ 1 10 No Systems Documentation, No OpenManage DVD Kit 631-AACK 1 10 PowerEdge R7515 Shipping 340-CMZG 1 10 PowerEdge R7515 Ship Material 340-CODN 1 10 PowerEdge R7515 SCC Marking, No CE Marking 343-BBPQ 1 10 BOO CON OPERATION Management 929-8509 1 10 Basic Next Business Day 36 Months 709-BBFM 1 10 Included Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Boolean Control of the Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Boolean Control of the Mission Critical Initial of Month(s) 865-BBNF 1 10 Boolean Control of the Mission Critical Initial of Month(s) 865-BBNF 1 10 Boolean Control of Con	DRAC9,Enterprise 15G	385-BBOT	1	10		
AUSS controller card + with 2 M.2 Sticks 240G (RAID 1),FH NO Quick Sync 350-BBKU 1 10 DRAC,Legacy Password 379-BCSG 1 10 DRAC Group Manager, Enabled 379-BCQV 1 10 DRAC Group Manager, Enabled 605-BBFL 1 10 NO Media Required 605-BBFN 1 10 NO Media Required 605-BBFN 1 10 NO Internal Optical Drive NO Systems Documentation, No OpenManage DVD Kit 631-AACK 1 10 DROWEREdge R7515 Shipping 340-CMZG 1 10 DROWEREdge R7515 Ship Material 20 DROWEREdge R7515 Ship Material 20 DROWEREDge R7515 CCC Marking, No CE Marking 343-BBPQ 343-BBPQ 343-BBPQ 1 10 362CP Operations Management 929-8509 1 10 363cic Next Business Day 36 Months 709-BBFM 1 10 Included 200-Site Installation Declined 200-Site Installation Declined 200-Site Installation Declined 200-Site Installation Declined 200-Site Installation Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 200-BROK 201-BROK	PowerEdge R7515 Motherboard, with 2x1Gb Onboard LOM (BCM5720) V2	384-BCNQ	1	10		
No Quick Sync No Quick Sync DRAC, Legacy Password 379-BCSG 1 10 DRAC Group Manager, Enabled 379-BCQV 1 10 No Media Required 605-BBFL 1 10 No Media Required 605-BBFN 1 10 No Internal Optical Drive No Systems Documentation, No OpenManage DVD Kit PowerEdge R7515 Shipping 340-CMZG 20 20 20 20 20 20 20 20 20 2	PowerEdge 2U Standard Bezel	350-BBWP	1	10		
DRAC, Legacy Password DRAC Group Manager, Enabled 379-BCQV 1 100 Enterprise Linux OS, Non Factory Installed, Requires Subscription 605-BBFL 1 100 No Media Required 605-BBFN 1 100 ReadyRails Sliding Rails 770-BBBQ 1 100 No Internal Optical Drive 429-AAIQ 1 100 No Systems Documentation, No OpenManage DVD Kit 631-AACK 1 100 PowerEdge R7515 Shipping 340-CMZG 1 100 PowerEdge R7515 Ship Material 340-CODN 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 100 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 100 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 100 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 100 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 100 PowerEdge R7515 CCC Marking 340-CODN	BOSS controller card + with 2 M.2 Sticks 240G (RAID 1),FH	403-BCHP	1	10		
DRAC Group Manager, Enabled 379-BCQV 1 10 Enterprise Linux OS, Non Factory Installed, Requires Subscription 605-BBFL 1 10 No Media Required 605-BBFN 1 10 ReadyRails Sliding Rails 770-BBBQ 1 10 No Internal Optical Drive 429-AAIQ 1 10 No Systems Documentation, No OpenManage DVD Kit 631-AACK 1 10 PowerEdge R7515 Shipping 340-CMZG 1 10 PowerEdge R7515 Ship Material 340-CMZG 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 929-8509 1 10 PowerEdge R7516 Management 929-8509 1 10 Possic Next Business Day 36 Months 709-BBFM 1 10 Included Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Possic Installation Declined 900-9997 1 10 Possic RollMM, 3200MT/s, Dual Rank 370-AEVP 1 80 Possic RollMM, 3200MT/s, Dual Rank 370-AEVP 1 30 Possic RollMM, 250V, 12A (North America, Guam, North 492-BBDV 1 20 Possic Roll Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10	No Quick Sync	350-BBKU	1	10		
Enterprise Linux OS, Non Factory Installed, Requires Subscription No Media Required ReadyRails Sliding Rails No Internal Optical Drive No Systems Documentation, No OpenManage DVD Kit No Systems Documentation, No OpenManage DVD Kit Overefidge R7515 Shipping Overefidge R7515 Ship Material Overefidge R7515 Ship Material Overefidge R7515 Ship Material Overefidge R7515 CCC Marking, No CE Marking OCC Operations Management OCC Operations Manage	DRAC,Legacy Password	379-BCSG	1	10		
No Media Required 605-BBFN 1 10 ReadyRails Sliding Rails 770-BBBQ 1 10 No Internal Optical Drive 429-AAIQ 1 10 No Systems Documentation, No OpenManage DVD Kit 631-AACK 1 10 PowerEdge R7515 Shipping 340-CMZG 1 10 PowerEdge R7515 Ship Material 340-CODN 1 10 PowerEdge R7515 SCC Marking, No CE Marking 343-BBPQ 1 10 GCP Operations Management 929-8509 1 10 Basic Next Business Day 36 Months 709-BBFM 1 10 Included Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Included Dn-Site Installation Declined 900-9997 1 10 SeGB RDIMM, 3200MT/s, Dual Rank 370-AEVP 1 80 LiGTB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 1 30 Seroadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10	DRAC Group Manager, Enabled	379-BCQV	1	10		
ReadyRails Sliding Rails No Internal Optical Drive No Systems Documentation, No OpenManage DVD Kit 631-AACK 1 10 PowerEdge R7515 Shipping 340-CMZG 1 10 PowerEdge R7515 Ship Material 340-CODN 1 10 PowerEdge R7515 SCC Marking, No CE Marking 343-BBPQ 1 10 GCP Operations Management 929-8509 1 10 Basic Next Business Day 36 Months 709-BBFM 1 10 Included Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Included Dn-Site Installation Declined 900-9997 1 10 S4GB RDIMM, 3200MT/s, Dual Rank L6TB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 1 20 Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10 10 10 10 10 10 10 10 10	Enterprise Linux OS, Non Factory Installed, Requires Subscription	605-BBFL	1	10		
No Internal Optical Drive 429-AAIQ 1 10 No Systems Documentation, No OpenManage DVD Kit 631-AACK 1 10 PowerEdge R7515 Shipping 340-CMZG 1 10 PowerEdge R7515 Ship Material 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 GCP Operations Management 929-8509 1 10 Basic Next Business Day 36 Months 709-BBFM 1 10 Included Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Included Dn-Site Installation Declined 900-9997 1 10 S4GB RDIMM, 3200MT/s, Dual Rank 370-AEVP 1 80 LGTB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 1 30 Jumper Cord - C13/C14, 4M, 250V, 12A (North America, Guam, North 492-BBDV 1 20 Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10	No Media Required	605-BBFN	1	10		
No Systems Documentation, No OpenManage DVD Kit 631-AACK 1 10 PowerEdge R7515 Shipping 340-CMZG 1 10 PowerEdge R7515 Ship Material 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking 1 10 PowerEdge R7515 CCC Marking, No CE Marking 340-CODN 1 10 PowerEdge R7515 CCC Marking 1 10 PowerEdge R7515 CCC Marking 1 10 PowerEdge R7515 CCC Markin	ReadyRails Sliding Rails	770-BBBQ	1	10		
PowerEdge R7515 Shipping 340-CMZG 1 10 PowerEdge R7515 Ship Material 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 GCP Operations Management 929-8509 1 10 Basic Next Business Day 36 Months 709-BBFM 1 10 Included Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Included On-Site Installation Declined 900-9997 1 10 F4GB RDIMM, 3200MT/s, Dual Rank 370-AEVP 1 80 L6TB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 1 30 Jumper Cord - C13/C14, 4M, 250V, 12A (North America, Guam, North 492-BBDV 1 20 Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10	No Internal Optical Drive	429-AAIQ	1	10		
PowerEdge R7515 Ship Material 340-CODN 1 10 PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 GCP Operations Management 929-8509 1 10 Basic Next Business Day 36 Months 709-BBFM 1 10 Included Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Included Dn-Site Installation Declined 900-9997 1 10 S4GB RDIMM, 3200MT/s, Dual Rank 370-AEVP 1 80 L.6TB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 1 30 umper Cord - C13/C14, 4M, 250V, 12A (North America, Guam, North 492-BBDV 1 20 Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10	No Systems Documentation, No OpenManage DVD Kit	631-AACK	1	10		
PowerEdge R7515 CCC Marking, No CE Marking 343-BBPQ 1 10 344-BBPQ 344-BBPQ 1 344-BBPQ 344	PowerEdge R7515 Shipping	340-CMZG	1	10		
329-8509 1 10 Basic Next Business Day 36 Months 709-BBFM 1 10 Included Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Included On-Site Installation Declined 900-9997 1 10 S4GB RDIMM, 3200MT/s, Dual Rank 370-AEVP 1 80 L.GTB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 1 30 Jumper Cord - C13/C14, 4M, 250V, 12A (North America, Guam, North 492-BBDV 1 20 Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10	PowerEdge R7515 Ship Material	340-CODN	1	10		
Basic Next Business Day 36 Months 709-BBFM 1 10 Included Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Included Dn-Site Installation Declined 900-9997 1 10 S4GB RDIMM, 3200MT/s, Dual Rank 370-AEVP 1 80 Included Dn-Site Installation Declined 900-9997 1 10 S4GB RDIMM, 3200MT/s, Dual Rank 370-AEVP 1 80 Included Dn-Site Installation Declined 900-9997 1 10 Included Dn-Site Installation Declined 900-9997 1 Included Pn-Site Installation Pn-Si	PowerEdge R7515 CCC Marking, No CE Marking	343-BBPQ	1	10		
Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Included Dn-Site Installation Declined 900-9997 1 10 846B RDIMM, 3200MT/s, Dual Rank 370-AEVP 1 80 L6TB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 1 30 umper Cord - C13/C14, 4M, 250V, 12A (North America, Guam, North 492-BBDV 1 20 Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10	GCP Operations Management	929-8509	1	10		
Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s) 865-BBNF 1 10 Included Dn-Site Installation Declined 900-9997 1 10 S4GB RDIMM, 3200MT/s, Dual Rank 370-AEVP 1 80 L6TB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 1 30 umper Cord - C13/C14, 4M, 250V, 12A (North America, Guam, North 492-BBDV 1 20 Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10	Basic Next Business Day 36 Months	709-BBFM	1	10		Included
On-Site Installation Declined 900-9997 1 10 54GB RDIMM, 3200MT/s, Dual Rank 370-AEVP 1 80 L.6TB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 1 30 umper Cord - C13/C14, 4M, 250V, 12A (North America, Guam, North 492-BBDV 1 20 Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10	Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s)		1	10		Included
S4GB RDIMM, 3200MT/s, Dual Rank 370-AEVP 1 80 L.6TB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 1 30 lumper Cord - C13/C14, 4M, 250V, 12A (North America, Guam, North 492-BBDV 1 20 Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10						
L.6TB Enterprise NVMe Mixed Use AG Drive U.2 Gen4 with carrier 400-BKGF 1 30 umper Cord - C13/C14, 4M, 250V, 12A (North America, Guam, North 492-BBDV 1 20 Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10	54GB RDIMM, 3200MT/s, Dual Rank					
umper Cord - C13/C14, 4M, 250V, 12A (North America, Guam, North 492-BBDV 1 20 3roadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10						
Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, Mezz Card 540-BCKU 1 10	•					
10 To see Server, 1-2 Ski w Onlinined Vivis, L3 Subscription, 3 1526-Chrr	SUSE Linux Enterprise Server, 1-2 SKT w Unlimited VMs, L3 Subscription, 3		1	10		



TPCx-BB Rev. 1.5.0 TPC-Pricing Rev. 2.7.0

Report Date: March 15, 2021

(continued from previous page)

Description	Part Number	Source	Unit Price	Qty	Extended Price	3 Yr. Maint. Price
PowerEdge R7515 - Master Node		1	\$53,965.14	1	\$53,965.14	
2.5 Chassis	379-BDTF	1		1		
SAS/SATA Backplane	379-BDSS	1		1		
PowerEdge R7515 Server	210-ASVQ	1		1		
No Trusted Platform Module	461-AADZ	1		1		
2.5" Chassis with up to 24 Hot Plug Hard Drives	321-BERX	1		1		
AMD 7763 2.45GHz,64C/128T,256M,280W,3200	338-BZRR	1		1		
Standard Heatsink	412-AASE	1		1		
Performance Optimized	370-AAIP	1		1		
3200MT/s RDIMMs	370-AEVR	1		1		
No RAID	780-BCDI	1		1		
HBA330 12Gbps SAS HBA Controller (NON-RAID), Minicard	405-AAJU	1		1		
Performance BIOS Settings	384-BBBL	1		1		
UEFI BIOS Boot Mode with GPT Partition	800-BBDM	1		1		
High Performance Fan	750-AAWT	1		1		
Dual, Hot-plug, Redundant Power Supply (1+1), 1100W	450-ADWM	1		1		
Riser Config 2, 2 x 16 FH + 2 x 16 LP PCIe slot	330-BBNL	1		1		
PowerEdge R7515 Motherboard,MLK	384-BCUN	1		1		
iDRAC9,Enterprise 15G	385-BBOT	1		1		
PowerEdge R7515 Motherboard, with 2x1Gb Onboard LOM (BCM5720) V2	384-BCNQ	1		1		
PowerEdge 2U Standard Bezel	350-BBWP	1		1		
BOSS controller card + with 2 M.2 Sticks 240G (RAID 1),FH	403-BCHP	1		1		
No Quick Sync	350-BBKU	1		1		
iDRAC,Legacy Password	379-BCSG	1		1		
iDRAC Group Manager, Enabled	379-BCQV	1		1		
Enterprise Linux OS, Non Factory Installed, Requires Subscription	605-BBFL	1		1		
No Media Required	605-BBFN	1		1		
ReadyRails Sliding Rails	770-BBBQ	1		1		
No Internal Optical Drive	429-AAIQ	1		1		
No Systems Documentation, No OpenManage DVD Kit	631-AACK	1		1		
PowerEdge R7515 Shipping	340-CMZG	1		1		
PowerEdge R7515 Ship Material	340-CODN	1		1		
PowerEdge R7515 CCC Marking, No CE Marking	343-BBPQ	1		1		
GCP Operations Management	929-8509	1		1		
Basic Next Business Day 36 Months	709-BBFM	1		1		Included
Prosupport Plus and 4Hr Mission Critical Initial, 36 Month(s)	865-BBNF	1		1		Included
On-Site Installation Declined	900-9997	1		1		
64GB RDIMM, 3200MT/s, Dual Rank	370-AEVP	1		8		
480GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive,	400-AXTV	1		2		
Jumper Cord - C13/C14, 4M, 250V, 12A (North America, Guam, North	492-BBDV	1		2		
Broadcom 57414 Dual Port 10/25GbE SFP28 Adapter, PCIe Low Profile	540-BBVK	1		1		
SUSE Linux Enterprise Server, 1-2 SKT w Unlimited VMs, L3 Subscription, 3	\528-CHFF	1		1		

(continued on next page)



Large Purchase Discount (35%)*

Dell PowerEdge R7515

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-\$405,618.59

(continued from previous page)

Description	Part Number	Source	Unit Price	Qty	Extended Price	3 Yr. Maint. Price
PowerSwitch S5248-ON		1	\$41,049.37	1	\$41,049.37	
Dell EMC S5248F-ON Switch, 48x25GbE SFP28, 4x100GbE QSFP28,	210-APEX	1		1		
Dell EMC S52XX-ON Series User Guide	343-BBLP	1		1		
OS10 Enterprise, S5248F-ON	634-BRUN	1		1		
Dell Hardware Limited Warranty 1 Year	818-4856	1		1		Included
ProSupport Plus:Mission Critical 4-Hour 7x24 On-Site Service with Emerge	r 818-4898	1		1		Included
ProSupport Plus Mission Critical:7x24 HW/SW Technical Support and Assi	s 818-4901	1		1		Included
ProSupport Plus:Mission Critical 4-Hour 7x24 On-Site Service with Emerge	r 818-4902	1		1		Included
Dell Limited Hardware Warranty Extended Year(s)	975-3461	1		1		Included
Info 3rd Party Software Warranty provided by Vendor	997-6306	1		1		
On-Site Installation Declined	900-9997	1		1		
Dell Networking, Cable, SFP+ to SFP+, 10GbE, Active Optical (Optics includ	€ 470-ABME	1		11		
Power Cord, 125V, 15A, 10 Feet, NEMA 5-15/C13	450-AAFH	1		1		
Power Cord, 125V, 15A, 10 Feet, NEMA 5-15/C13	450-AAFH	1		1		
APC NetShelter SX Deep Enclosure - Rack - cabinet - black - 24U - 18-inch APC Basic Rack PDU AP9567 - 0U - 120V NEMA 5-15 Input / (14) NEMA 5-15	A7522217	1	\$1,129.99	1	\$1,129.99	
Output	A7541362	1	\$189.99	1	\$189.99	
24 Inch LED monitor VE248Q - Widescreen Full HD Monitor	A6732050	1	\$136.99	1	\$136.99	
Logitech MK200 Media Keyboard and Mouse Combo	A6859396	1	\$24.99	1	\$24.99	
HARDWARE COMPONENTS			Subt	total	\$710,110.27	
SOFTWARE COMPONENTS						
Cloudera CDP - 3 year 24x7 support		1	\$40,800.00	11	\$448,800.00	
SOFTWARE COMPONENTS			Subt	total	\$448,800.00	
TOTAL						\$1,158,910.27

Pricing:1 = {Source 1}; 2 = {Source 2}	Three-Year Cost of Ownership	\$753,292
(1) All discounts are based on US list prices and for similar quantities and configurations. The discounts are based on the overall specific components pricing from respective vendors in this single quotation. Discounts for similarly sized configurations will be similar to those quoted here, but may vary based on the components in the configuration.	BBQpm@3000	1,544.13
Audited by Doug Johnson of InfoSizing	\$/BBQpm@3000	\$ 487.85

Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated components. Individually negotiated discounts are not permitted. Special prices based on assumptions about past or future purchases are not permitted. All discounts reflect standard pricing policies for the listed components. For complete details, see the pricing sections of the TPC benchmark specifications. If you find that the stated prices are not available according to these terms, please inform at pricing@tpc.org. Thank you.



TPCx-BB Rev. 1.5.0 TPC-Pricing Rev. 2.7.0

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Numerical Quantities

Scale Factor3000Streams7SUT Validation TestPASS

Performance Run (Run 1)

 Overall Run Start Time
 2021-03-09 06:59:44.024

 Overall Run End Time
 2021-03-09 15:36:16.763

 Overall Run Elapsed Time
 30,992.739

 Load Test Start Time
 2021-03-09 06:59:44.024

 Load Test End Time
 2021-03-09 07:07:37.124

 Load Test Elapsed Time
 473.100

 Power Test Start Time
 2021-03-09 07:07:37.126

Power Test Start Time 2021-03-09 07:07:37.126

Power Test End Time 2021-03-09 08:41:09.654

Power Test Elapsed Time 5,612.528

Throughput Test Start Time 2021-03-09 08:41:09.655
Throughput Test End Time 2021-03-09 15:36:16.763
Throughput Test Elapsed Time 24,907.108

Performance Metric (BBQpm@ 3000) 1,544.13

Repeatability Run (Run 2)

 Overall Run Start Time
 2021-03-09 15:58:49.796

 Overall Run End Time
 2021-03-10 00:33:45.551

 Overall Run Elapsed Time
 30,895.755

 Load Test Start Time
 2021-03-09 15:58:49.796

 Load Test End Time
 2021-03-09 16:06:42.485

 Load Test Elapsed Time
 472.689

 Power Test Start Time
 2021-03-09 16:06:42.487

 Power Test End Time
 2021-03-09 17:40:33.047

 Power Test Elapsed Time
 5,630.560

Throughput Test Start Time 2021-03-09 17:40:33.047
Throughput Test End Time 2021-03-10 00:33:45.551
Throughput Test Elapsed Time 24,792.504

Performance Metric (BBQpm@ 3000) 1,547.29



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Performance Run Report (Run 1)

***** TPCx-BB Result v1.5 ***** INFO: T LOAD = 473.1INFO: T_LD = 0.1 * T_LOAD: 47.31 INFO: T_PT = 3344.72753844527 INFO: $T_T_PUT = 24907.108$ INFO: T_TT = 3558.15828571428 INFO: === Checking validity of the final result === INFO: OK: All required BigBench phases were performed. INFO: OK: All 30 queries were running in the power test. INFO: OK: All 30 queries were running in the first throughput test. INFO: OK: Pretend mode was inactive. All commands were executed. INFO: === Final result === INFO: VALID BBQpm@3000 = 1544.13535691466

Repeatability Run Report (Run 2)

```
*****
TPCx-BB
Result
v1.5
*****
INFO: T_LOAD = 472.689
INFO: T LD = 0.1 * T LOAD: 47.2689
INFO: T_PT = 3346.39272029584
INFO: T_T_PUT = 24792.504
INFO: T TT = 3541.78628571428
INFO: === Checking validity of the final result ===
INFO: OK: All required BigBench phases were performed.
INFO: OK: All 30 queries were running in the power test.
INFO: OK: All 30 queries were running in the first throughput test.
INFO: OK: Pretend mode was inactive. All commands were executed.
INFO: === Final result ===
INFO: VALID BBQpm@3000 = 1547.29014415038
```

Summary details of the run reports are shown above. For the complete run reports, see the Support Files Archive.