
	<h1>Dell PowerEdge R7525</h1>		TPCx-V	2.1.7
			TPC Pricing	2.6.0
			Report Date	Mar. 15, 2021
Availability Date	TPCx-V Throughput	Price/Performance	Total System Cost	
April 15, 2021	2,800.00 tpsV	\$50.67 USD / tpsV	\$141,854 USD	

System Under Test Configuration Overview


Virtualization Software	Guest VM OS	Processor Description	Memory Size
VMware vSphere 7.0.2	Red Hat Enterprise Linux release 8.3	AMD EPYC 7713 64-Core Processor	1,024 GB




- 1x Dell PowerEdge R7525 with:
- 2x AMD EPYC 7713 2.0 GHz (2 Proc/128 Cores/256 Threads)
 - 1,024 GB (16x 64GB DIMM 3200 MHz)
 - 2x Micron M.2 480 GB SATA SSD
 - 12x 7.68 TB Samsung 2.5" NVMe AGN RI U.2
 - 2x PERC H755N Front RAID Controller (embedded)
 - 1x 1 Gb Broadcom Ethernet NIC (onboard)
 - 1x Mellanox 25 Gb dual-port SFP28 Adapter

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Description	Part Number	Key	Unit Price	Qty	Extended Price	3 yr. Maint. Price
HARDWARE COMPONENTS						
PowerEdge R7525 Server			1	\$191,918.21	1	\$191,918.21
NVMe Backplane	379-BDSX		1		1	
PowerEdge R7525 Server	210-AUVQ		1		1	
No Trusted Platform Module	461-AADZ		1		1	
16X 2.5 NVME dual PERC11, 2 CPU w XGMI	321-BGCB		1		1	
AMD 7713 2.0GHz,64C/128T,256M,225W,3200	338-BZRM		1		1	
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Additional Processor Selected	379-BDCO		1		1	
Heatsink for 2 CPU configuration (CPU greater than or equal to 180W)	412-AATC		1		1	
Performance Optimized	370-AAIP		1		1	
3200MT/s RDIMMs	370-AEVR		1		1	
No RAID/No RAID 24 + 8 dual PERC	780-BCJK		1		1	
PERC H755N Front	405-AAZE		1		1	
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Front PERC Mechanical Parts, for 2.5" x2, x8, x10, x16 SAS/SATA or 2.5" NVMe Chassis	750-ACFQ		1		1	
No Hard Drive	400-ABHL		1		1	
Performance BIOS Settings	384-BBBL		1		1	
UEFI BIOS Boot Mode with GPT Partition	800-BBDM		1		1	
Standard Fan x6	750-ACSP		1		1	
Dual, Hot-Plug,Power Supply Redundant (1+1), 1400W ART	450-AJHI		1		1	
Riser Config 4, Half Length, 6x8, 2x16 slots	330-BBOU		1		1	
R7525 Motherboard with LOM,MLK	384-BCUP		1		1	
iDRAC9,Enterprise x5	385-BBOT		1		1	
Intel i350 Quad Port 1GbE BASE-T, OCP NIC 3.0	540-BCOE		1		1	
PowerEdge 2U Standard Bezel	325-BCHU		1		1	
BOSS-S2 controller card + with 2 M.2 480GB (RAID 1)	403-BCMB		1		1	
BOSS S2 cables and Bracket for R7525	403-BCMY		1		1	
No Quick Sync	350-BBYX		1		1	
iDRAC,Legacy Password	379-BCSG		1		1	
iDRAC Service Module (ISM), NOT Installed	379-BCQX		1		1	
iDRAC Group Manager, Enabled	379-BCQV		1		1	
VMware ESXi 6.7 U3 Embedded Image (License Not Included)	634-BRIO		1		1	
No Media Required	605-BBFN		1		1	
ReadyRails Sliding Rails	770-BBBQ		1		1	
Cable Management Arm, 2U	770-BDRQ		1		1	
No Systems Documentation, No OpenManage DVD Kit	631-AAACK		1		1	
PowerEdge R7525 Shipping	340-COFR		1		1	
R7525 Shipping Material	481-BBFE		1		1	
PowerEdge R7525 no CE or with CCC Marking	389-DUZG		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		16	
7.68TB Enterprise NVMe Read Intensive AG Drive U.2 Gen4 with carrier	400-BKGU		1		12	
C13 to C14, PDU Style, 12 AMP, 6.5 Feet (2m) Power Cord	492-BBDI		1		2	
Mellanox ConnectX-5 Dual Port 10/25GbE SFP28 Adapter	540-BCMQ		1		1	
Logitech MK200 Media Keyboard and Mouse Combo	A6859396		1	\$24.99	3	\$74.97
24 Inch LED monitor VE248Q - Widescreen Full HD Monitor	A6732050		1	\$136.99	3	\$410.97
HARDWARE COMPONENTS SUBTOTAL					\$192,404.15	

(continued on the next page)

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Pricing: 1 = Dell; 2 = VMware * Discount applies to all line items where Key = 1. Discount based upon total system cost as purchased by a regular customer. Audited by Doug Johnson, InfoSizing			Three-Year Cost of Ownership: \$141,854 TPCx-V Throughput: 2,800.00 \$ USD/tpsV: \$50.67																																																									
<i>Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated Line Items. 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 Line Items. For complete details, see the pricing section of the TPC Benchmark Standard. If you find that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.</i>																																																												

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Guest VM Details						
Database Manager	VM Memory (Total)	vCPUs (Total)	DB Initial Size	Configured Customers	Active Customers	
PostgreSQL 10.15	978 GiB	432	18,725.3 GB	1,400,000	1,400,000	
Transaction Response Times (in seconds)						
Transaction Type		Min	Avg	90 th %	Max	
Broker-Volume		0.001	0.008	0.015	1.175	
Customer-Position		0.001	0.013	0.028	4.345	
Market-Watch		0.000	0.010	0.019	2.075	
Security-Detail		0.002	0.011	0.022	2.197	
Trade-Lookup		0.001	0.045	0.079	1.490	
Trade-Order		0.002	0.018	0.036	2.499	
Trade-Result		0.002	0.024	0.045	2.232	
Trade-Status		0.001	0.009	0.019	7.664	
Trade-Update		0.006	0.072	0.126	1.647	
Data-Maintenance		0.001	0.008	0.015	0.157	
Market-Feed		0.001	0.006	0.011	0.151	
Transaction Mix						
Transaction Type		Transaction Count		Mix Percentage		
Broker-Volume		8,012,442		3.900%		
Customer-Position		30,817,135		15.000%		
Market-Watch		34,925,795		17.000%		
Security-Detail		32,871,568		16.000%		
Trade-Lookup		18,490,334		9.000%		
Trade-Order		20,750,642		10.100%		
Trade-Result		20,544,373		10.000%		
Trade-Status		36,980,277		18.000%		
Trade-Update		2,054,574		1.000%		
Data-Maintenance		1,920		N/A		
Market-Feed		115,200		N/A		
Transaction Total				205,447,140		
Measurement Interval				02:00:00		
Business Recovery Time				00:18:07		
Redundancy Level Details				Redundancy Level 1 (via RAID 10)		
Auditor				Doug Johnson, InfoSizing		