
	<h1>Dell PowerEdge R7525</h1>		TPCx-V 2.1.8
			TPC Pricing 2.7.0
			Report Date Sep. 22, 2021
Availability Date <b>September 22, 2021</b>	TPCx-V Throughput <b>3,600.00 tpsV</b>	Price/Performance <b>\$36.50 USD / tpsV</b>	Total System Cost <b>\$131,394 USD</b>

System Under Test Configuration Overview


Virtualization Software	Guest VM OS	Processor Description	Memory Size
VMware vSphere 7.0.2	Red Hat Enterprise Linux 8.3	AMD EPYC 7763 2.45 GHz, 32 MB L3	1,024 GB




- 1x Dell PowerEdge R7525 with:
- 2x AMD EPYC 7763 2.45 GHz (2 Proc / 128 Cores / 256 Threads)
  - 16x 64GB RDIMM 3200 MHz Dual Rank
  - 16x 7.68 TB Enterprise NVMe Read Intensive AG Drive U.2 Gen4
  - 2x Micron M.2 480GB SATA SSD
  - 2x PERC H755N Front RAID Controller (embedded)
  - 1x 1GB Broadcom Dual-port Gigabit Ethernet NIC (onboard)
  - 1x Mellanox 25 GB Dual-port SFP28 Adapter
  - 1x Mellanox ConnectX-5 Ex 100GbE QSFP Adapter

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Description	Part Number	Key	Unit Price	Qty	Extended Price	3 yr. Maint. Price
<b>HARDWARE COMPONENTS</b>						
PowerEdge R7525 Server		1	\$190,611.54	1	\$190,611.54	
NVMe Backplane	379-BDSX	1		1		
PowerEdge R7525 Server	210-AUVQ	1		1		
Trusted Platform Module 2.0 V3	461-AAIG	1		1		
16X 2.5 NVME dual PERC11, 2 CPU w XGMI	321-BGCB	1		1		
AMD 7763 2.45GHz,64C/128T,256M,280W,3200	338-BZRR	1		1		
AMD 7763 2.45GHz,64C/128T,256M,280W,3200	338-BZRV	1		1		
Additional Processor Selected	379-BDCO	1		1		
Heatsink for 2 CPU configuration (CPU greater than or equal to 1412-AATC	412-AATC	1		1		
Performance Optimized	370-AAIP	1		1		
3200MT/s RDIMMs	370-AEVR	1		1		
C46, Unconfig RAID + Unconfig RAID, dual PERC	780-BCJK	1		1		
PERC H755N Front	405-AAZE	1		1		
PERC H755N Front	405-AAZE	1		1		
Front PERC Mechanical Parts, rear load	750-ACFQ	1		1		
Front PERC Mechanical Parts, rear load	750-ACFQ	1		1		
No Hard Drive	400-ABHL	1		1		
Power Saving BIOS Settings	384-BBBH	1		1		
UEFI BIOS Boot Mode with GPT Partition	800-BBDM	1		1		
Standard Fan x6	750-ADGK	1		1		
Dual, Hot-Plug,Power Supply Redundant (1+1), 1400W, Mixed M450-AJHG	450-AJHG	1		1		
Riser Config 4, Half Length, 6x8, 2x16 slots	330-BBOU	1		1		
PowerEdge R7525 Motherboard, with 2 x 1Gb Onboard LOM,MLK384-BCWO	384-BCWO	1		1		
iDRAC9,Enterprise 15G	385-BBOT	1		1		
Mellanox ConnectX-5 Dual Port 10/25GbE SFP28, OCP NIC 3.0	540-BCOF	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-BCSQ	1		1		
iDRAC Group Manager, Enabled	379-BCQV	1		1		
No Operating System	611-BBBF	1		1		
No Media Required	605-BBFN	1		1		
ReadyRails Sliding Rails	770-BBBQ	1		1		
Fan Foam, HDD 2U	750-ACOM	1		1		
No Systems Documentation, No OpenManage DVD Kit	631-AACK	1		1		
PowerEdge R7525 Shipping	340-COFR	1		1		Included
R7525 Shipping Material	481-BBFE	1		1		Included
PowerEdge R7525 CE Marking , No CCC Marking	389-DUZE	1		1		
Basic Next Business Day 36 Months	709-BBFM	1		1		
Basic Next Business Day Extension, 1 Month(s)	865-BBNP	1		1		
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 400-BKGU	400-BKGU	1		16		
Jumper Cord - C13/C14, 0.6M, 250V, 13A (North American, Guam,492-BBDH	492-BBDH	1		2		
Mellanox ConnectX-5 EX Dual Port 40/100GbE QSFP28 Adapter, P540-BCIX	540-BCIX	1		1		
ProSupport Plus:Mission Critical 4-Hour, 36 Month(s)	865-BBNB	1		1		Included
Basic Next Business Day 36 Months	709-ACOM	1		1		Included
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	
<b>HARDWARE COMPONENTS</b>			<b>Subtotal</b>		<b>\$190,773.52</b>	

(continued on the next page)

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(continued from the previous page)						
Description	Part Number	Key	Unit Price	Qty	Extended Price	3 yr. Maint. Price
<b>SOFTWARE COMPONENTS</b>						
VMware vSphere Standard + Production Support: 3yrs, 24x7		2	-	4		7390.88
RHEL, 1-2SKT,3yr Premium Subscription, Virtual Datacenters, Dig 528-CHFN		1		1		included
<b>SOFTWARE COMPONENTS</b>					<b>Subtotal</b>	<b>\$7,390.88</b>
<b>SUBTOTAL</b>						<b>\$198,164.40</b>
Large Purchase Discount (35%)*						-\$66,770.73
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.				<b>Three-Year Cost of Ownership: \$131,394</b> <b>TPCx-V Throughput: 3,600.00</b> <b>\$ USD/tpsV: \$36.50</b>		
Audited by Doug Johnson, InfoSizing						
<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 <a href="mailto:pricing@tpc.org">pricing@tpc.org</a>. Thank you.</i>						

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Guest VM Details						
Database Manager PostgreSQL 10.15	VM Memory (Total) 980 GiB	vCPUs (Total) 432	DB Initial Size 23,161.0 GiB	Configured Customers 1,800,000	Active Customers 1,800,000	
Transaction Response Times (in seconds)						
Transaction Type		Min	Avg	90 <sup>th</sup> %	Max	
Broker-Volume		0.001	0.006	0.011	0.338	
Customer-Position		0.001	0.010	0.020	0.537	
Market-Watch		0.000	0.008	0.014	0.656	
Security-Detail		0.001	0.009	0.016	0.415	
Trade-Lookup		0.000	0.045	0.077	1.049	
Trade-Order		0.001	0.014	0.026	0.545	
Trade-Result		0.002	0.018	0.031	0.707	
Trade-Status		0.001	0.010	0.019	0.485	
Trade-Update		0.005	0.072	0.117	1.200	
Data-Maintenance		0.001	0.008	0.015	0.106	
Market-Feed		0.001	0.004	0.007	0.280	
Transaction Mix						
Transaction Type		Transaction Count		Mix Percentage		
Broker-Volume		10,269,464		3.900%		
Customer-Position		39,498,665		15.000%		
Market-Watch		44,764,558		17.000%		
Security-Detail		42,132,041		16.000%		
Trade-Lookup		23,699,085		9.000%		
Trade-Order		26,596,135		10.100%		
Trade-Result		26,326,231		9.998%		
Trade-Status		47,398,302		18.000%		
Trade-Update		2,633,200		1.000%		
Data-Maintenance		3,840		N/A		
Market-Feed		230,398		N/A		
Transaction Total				263,317,681		
Measurement Interval				02:00:00		
Business Recovery Time				00:45:05		
Redundancy Level Details				Redundancy Level 1 (via RAID 10)		
Auditor				Doug Johnson, InfoSizing		