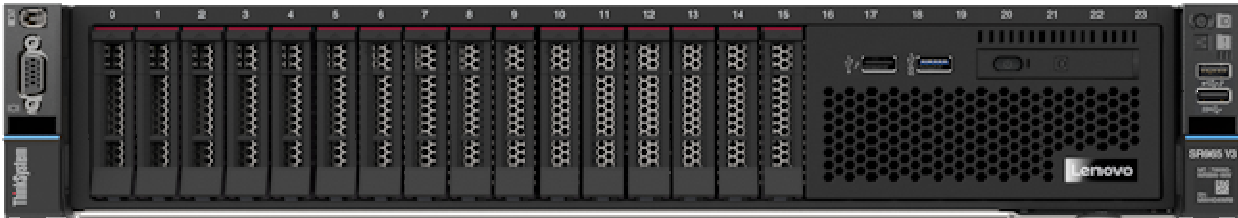


	Lenovo® ThinkSystem™ SR655 V3		TPC-E™ 1.14.0 TPC Pricing 2.9.0
			Report Date: April 29, 2025 Revision Date: April 29, 2025
TPC-E Throughput 18,682.14 tpsE™	Price/Performance \$80.23 USD per tpsE	Availability Date April 29, 2025	Total System Cost \$1,498,715 USD
Database Server Configuration			
Operating System Microsoft® Windows Server® 2022 Standard Edition	Database Manager Microsoft SQL Server® 2022 Enterprise Edition	Processors/Cores/Threads 1/160/320	Memory 1536GB
 4X 10Gb Ethernet 12X 12Gb SAS 6 x  			
TIER A (Client)		TIER B (Database Server and Storage)	
1 x Lenovo ThinkSystem SR650 V3: - 2 x Intel Xeon Gold 6442Y Processors @ 2.60GHz (2 Procs/48 Cores/96 Threads) - 256GB Memory - 2 x 960GB SATA SSD (RAID-1) - 1 x ThinkSystem RAID 940-8i - 1 x Quad 10Gb-T Ethernet - 2 x Dual 10Gb-T Ethernet		1 x Lenovo ThinkSystem SR655 V3: - 1 x AMD EPYC 9845 160-Core Processor @ 2.1GHz (1 Proc/160 Cores/320 Threads) - 1536GB Memory - 2 x 480GB SATA SSD (RAID-1) - 8 x 1600GB SAS SSD (RAID-10) - 6 x 3200GB SAS SSD (RAID-5) - 1 x ThinkSystem RAID 940-16i - 6 x ThinkSystem RAID 940-8e - 1 x Quad 10Gb-T Ethernet - 1 x Dual 10Gb-T Ethernet	
		6 x Lenovo Storage D1224 DAS Enclosures, with: - 144 x 800GB 2.5" SAS SSD (6 x 24-drive RAID-5)	
		144 Total External Drives	
Initial Database Size 78,094 GB	Redundancy Level: 1 RAID-10 Log, tempdb RAID-5 Data	Storage 144x 800GB 2.5" SAS SSD 2x 480GB 2.5" SATA SSD 8x 1600GB 2.5" SAS SSD 6x 3200GB 2.5" SAS SSD	



Lenovo ThinkSystem SR655 V3

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Description	Part Number	Price Source	Unit Price	Quantity	Extended Price	3- Year Maint Price
Server Hardware						
ThinkSystem SR655 V3 Configure-To-Order, includes:						
ThinkSystem V3 2U 24x2.5" Chassis	7D9ECTO1WW	1	188,536	1	188,536	
ThinkSystem AMD EPYC 9845 160C 390W 2.1GHz Processor	BLKK			1		
ThinkSystem SR655 V3 2U High Performance Heatsink	C2TD			1		
ThinkSystem 128GB TruDDR5 6400MHz (2Rx4) RDIMM-A	BQF9			1		
ThinkSystem RAID 940-16i 8GB Flash PCIe Gen4 12Gb Adapter	C0CL			12		
ThinkSystem 2.5" PM1655 1.6TB Mixed Use SAS 24Gb HS SSD	B8NZ			1		
ThinkSystem 2.5" S4520 480GB Read Intensive SATA 6Gb HS SSD	BNW9			8		
ThinkSystem 2.5" PM1655 3.2TB Mixed Use SAS 24Gb HS SSD	BA7G			2		
ThinkSystem 2U 8x2.5" SAS/SATA Backplane	BNW6			6		
ThinkSystem Broadcom 57454 10GBASE-T 4-port OCP Ethernet Adapter	B8LU			2		
ThinkSystem RAID 940-8e 4GB Flash PCIe Gen4 12Gb Adapter	B5T4			1		
ThinkSystem Broadcom 57416 10GBASE-T 2-Port PCIe Ethernet Adapter	BNWJ			6		
ThinkSystem V3 2U x16/x8/x8 PCIe Gen4 Riser1 or 2	AUKP			1		
ThinkSystem V3 2U x16/x16 PCIe Gen4 Riser3 Kit with Cage	BLKL			2		
ThinkSystem 1800W 230V Platinum Hot-Swap Gen2 Power Supply	BPKG			1		
2.8m, 13A/100-250V, C13 to C14 Jumper Cord	BMUF			2		
ThinkSystem 2U V3 Performance Fan Module	6400			2		
ThinkSystem Toolless Friction Rail v2	BLL6			6		
ThinkSystem 2U V3 EIA Latch Standard	BK7W			1		
ThinkSystem SR655 V3 MB w/IO+PIB+FB,2U	BQQ2			1		
ThinkSystem 2U V3 EIA right with FIO	C2AC			1		
ThinkSystem SR655 V3 Main Airduct	BQQ6			1		
ThinkSystem 2U MS 3FH Riser 1&2 Cage w/Label1	BQ81			1		
ThinkSystem 2U MS 3FH Riser 1&2 Cage w/ lb2	BPKD			1		
ThinkSystem RAID 930/940 SuperCap	BLLD			1		
ThinkSystem SR635 V3/SR655 V3 Root of Trust Module Low Voltage-RoW V2	AUNP			7		
ThinkSystem MS 2U common Airduct Filler	C1PT			1		
3Yr Premier 24x7 4Hr Resp SR655 V3	BQ31			1		
	5WS7C00976	1	1,997	1		1,997
Subtotal					188,536	1,997
Server Storage						
Lenovo Storage D1224 SFF Chassis, Dual ESM	4587A31	1	2,999	6	17,994	
External MiniSAS HD 8644/MiniSAS HD 8644 1M Cable	00YL848	1	79	12	948	
Lenovo Storage 800GB 3DWD 2.5" SAS SSD	01DC477	1	2,499	144	359,856	
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	39Y7937	1	49	12	588	
12Gb SAN Rack Mount Kit-Rails 25"-36"	01DC146	1	149	6	894	
Essential Service - 3Yr 24x7 4Hr Resp DS Series Disk Exp	01JR577	1	1,169	6		7,014
Subtotal					380,280	7,014
Server Software						
SQL Server 2022 Enterprise Edition (2 Core License)	N/A	2	15,123	80	1,209,840	
Windows Server 2022 Standard Edition (16 Core License)	N/A	2	1,069	10	10,690	
Microsoft Problem Resolution Services (1 Incident)	N/A	2	259	1		259
Subtotal					1,220,530	259
Client Hardware						
ThinkSystem SR650 V3 Configure-To-Order, includes:						
ThinkSystem V3 2U 24x2.5" Chassis	7D76CTO1WW	1	39,324	1	39,324	
Intel Xeon Gold 6442Y 24C 225W 2.6GHz Processor	BLKK			1		
ThinkSystem 16GB TruDDR5 4800MHz (1Rx8) RDIMM	BPQE			2		
ThinkSystem RAID 940-8i 4GB Flash PCIe Gen4 12Gb Adapter	BKTL			16		
ThinkSystem 2.5" S4520 960GB Read Intensive SATA 6Gb HS SSD	B8NY			1		
ThinkSystem 2U 8x2.5" SAS/SATA Backplane	BA7H			2		
ThinkSystem Broadcom 57454 10GBASE-T 4-port OCP Ethernet Adapter	B8LU			1		
ThinkSystem Broadcom 57416 10GBASE-T 2-Port PCIe Ethernet Adapter	B5T4			1		
ThinkSystem V3 2U x16/x8/x8 PCIe Gen4 Riser1 or 2	AUKP			2		
ThinkSystem 1100W 230V Titanium Hot-Swap Gen2 Power Supply	BLKL			2		
2.8m, 13A/100-250V, C13 to C14 Jumper Cord	BLKH			2		
ThinkSystem 2U V3 Performance Fan Module	6400			2		
ThinkSystem Toolless Friction Rail v2	BLL6			6		
ThinkSystem 2U V3 EIA Latch Standard	BK7W			1		
ThinkSystem SR650 V3 MB	BQQ2			1		
ThinkSystem 2U V3 EIA right with FIO	BLL0			1		
ThinkSystem SR650 V3 Main Air Duct	BQQ6			1		
ThinkSystem SR650 V3 PSU Duct	BP46			1		
ThinkSystem RAID 930/940 SuperCap	BLL3			1		
MS 2FH Riser Filler	AUNP			1		
ThinkSystem 2U MS 3FH Riser 1&2 Cage w/Label1	BC4X			1		
ThinkSystem 2U MS 3FH Riser 1&2 Cage w/ lb2	BPKD			1		
ThinkSystem SR650 V3 Firmware and Root of Trust Security Module	BLLD			1		
3Yr Premier 24x7 4Hr Resp SR650 V3	BM8T			1		
	5WS7B99819	1	1,699	1		1,699
Subtotal					39,324	1,699
Client Software						
Windows Server 2022 Standard Edition (16 Core License)	N/A	2	1,069	3	3,207	
Subtotal					3,207	0
Infrastructure						
Rack - NetBAY S2 42U Rack Cabinet	9307RC4	1	1,565	1	1,565	
0U 36 C13 and 6 C19 Basic 32A 1 Phase PDU	4PUTA93169	1	989	1	989	
ThinkSystem Pref. Pro II USB Keyboard - US English	7ZB7A05522	1	29	1	29	
ThinkSystem Optical Wheel Mouse - USB	7M57A04698	1	39	1	39	
ThinkVision S24i-30 23.8 inch Monitor	63DEKAR3US	1	92	1	92	
1.0m CAT6 Green Cable	00WE127	1	19	4	76	
Essential Service - 3Yr 24x7 4Hr Response (Rack)	41L2760	1	315	1		315
Subtotal					2,790	315
Total					1,834,667	11,284
Dollar Volume Discount (See Note 1)					55.83%	1
Pricing: 1 - Lenovo 1-877-782-7134; 2 - Microsoft						
Note 1: Discount applies to all line items where Pricing=1; pricing is for these or similar quantities. Discounts for similarly sized configurations will be similar to what is quoted here, but may vary based on the specific components priced.						
Benchmark results and test methodology audited by Doug Johnson for InfoSizing, Inc. (www.sizing.com)						
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.						
Three-Year Cost of Ownership USD:						\$1,498,715
TPC-E Throughput:						18,682.14
\$ USD/tpsE:						\$80.23



Lenovo ThinkSystem SR655 V3

TPC-E 1.14.0 TPC Pricing 2.9.0

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Numerical Quantities Summary

Reported Throughput:
18,682.14 tpsE

Configured Customers:
9,500,000

Response Time (in seconds)	Minimum	Average	90 Th Percentile	Maximum
Broker-Volume	0.01	0.01	0.02	3.48
Customer-Position	0.01	0.01	0.01	8.29
Market-Feed	0.01	0.01	0.02	11.03
Market-Watch	0.01	0.01	0.01	1.29
Security-Detail	0.01	0.01	0.01	0.42
Trade-Lookup	0.01	0.04	0.06	2.46
Trade-Order	0.01	0.02	0.09	10.95
Trade-Result	0.01	0.01	0.02	11.23
Trade-Status	0.01	0.01	0.01	2.43
Trade-Update	0.01	0.04	0.06	2.44
Data-Maintenance	0.01	0.02	N/A	0.38

Transaction Mix	Transaction Count	Mix %
Broker-Volume	65,906,610	4.900%
Customer-Position	174,853,697	13.000%
Market-Feed	13,451,155	1.000%
Market-Watch	242,105,503	18.000%
Security-Detail	188,304,361	14.000%
Trade-Lookup	107,601,633	8.000%
Trade-Order	135,847,681	10.100%
Trade-Result	134,511,446	10.001%
Trade-Status	255,555,683	19.000%
Trade-Update	26,900,251	2.000%
Data-Maintenance	120	N/A

Test Duration and Timings

Ramp-up Time (hh:mm:ss)	00:36:23
Measurement Interval (hh:mm:ss)	02:00:00
Business Recovery Time (hh:mm:ss)	00:45:11
Total Number of Transactions Completed in Measurement Interval	1,345,038,020