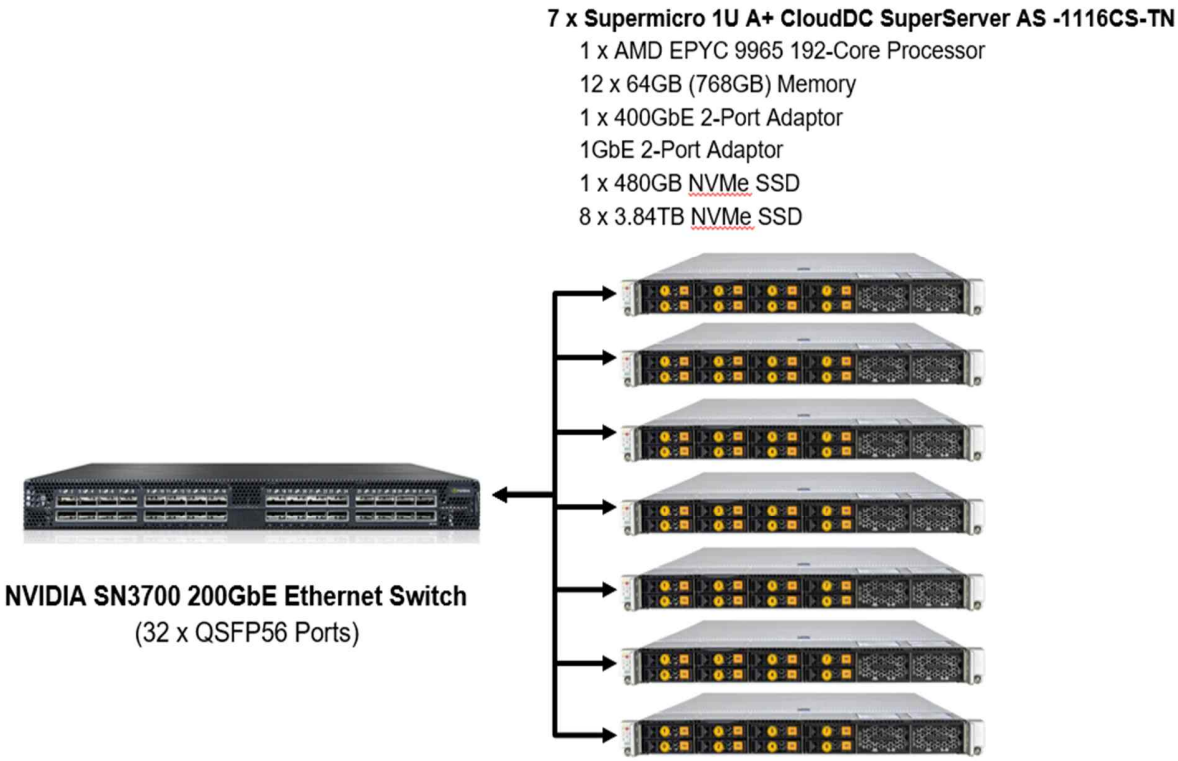
Machbase 8.0.50

TPCx-IoT 2.1.2
TPC Pricing 2.9.0
Report Date Dec. 23, 2025

Total System Cost	TPCx-IoT Performance Metric	Price/Performance
$512,156.45 USD	**16,969,032.54 IoTps**	**$30.18 USD/kIoTps**

Servers	Operating System	Other Software	Availability Date
Supermicro 1U A+ CloudDC SuperServer AS -1116CS-TN	Red Hat Enterprise Linux Server Release 9.5	None	**Oct 10, 2024**

System Under Test Configuration Overview



Total Servers:	7x Supermicro 1U A+ CloudDC SuperServer AS -1116CS-TN
Total Processors/Cores/Threads:	7/1344/2688
Server Configuration: Processor Memory Storage Device Network Controller	Master & Data Nodes 1x AMD EPYC 9965 (2.25GHz, 192-core, 384 MB L3) 1x 768 GB 1x 480GB M.2 NVMe SSD 8x 3.84TB U.3 NVMe SSD 1x Mellanox MT2910 Family Dual-Port 400GbE 1x Intel Corporation I350 Dual-Port 1GbE
Connectivity Total Rack Units:	NVIDIA SN3700 200GbE Switch (7x AS-1116CS-TN) + (1x SN3700) = (7x1) + (1x1) = 8 RU

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Description	Part Number	Source	List Price (USD)	Qty	Extended Price (USD)	3 yr. Maint. Price (USD)
Server Hardware						
Supermicro A+ Server 2014TP-HTR	AS-1116CS-TN-OTO-24	1	24500.20	7	171,501.40	
AMD EPYC Turin 9965 192-Core Processor	PSE-TUR9965-0976	1				
64GB DDR5-6400 ECC RDIMM	MEM-DR564MC-ER64	1				
3.8TB 2.5" NVMe PCIe4 SSD, 1DWPD, TLC, SED	HDS-25N4-003T8-E1-TXD-SED-007	1				
480GB M.2 NVMe PCIe4 SSD, 1DWPD, TLC	HDS-M2N4-480G0-E1-TXD-NON-080	1				
AIOM Gen2.1 x4 2x 1GbE RJ45 Intel i350-AM2 NIC	AOC-AG-I2M-P	1				
ConnectX-7 NDR 400G IB/EN OSFP Gen5x16 NIC (No Crypto)	AOC-CX766003N-SQ0	1				
1U 1000W CRPS Titanium redundant power supply	PWS-1K04A-1R	1				
1U 4-slot NVMe/SAS/SATA backplane for X13 Hyper	BPN-NVME5-HS119N-S4R	1				
Include Maintenance - 7x24x4 Care Pack (3-yrs)	EWCSC	1				
				Sub-Total	171,501.40	
Network Hardware						
Mellanox Spectrum-2 Switch, 32xQSFP56/2xAC PSU/x86 CPU	MSN3700-VS2F	2	24,348.00	1	24,348.00	
ENT BUS CRITICAL SUP SERVICES 4HRMA AR + 4HR ON-SITE CE SN3700 3 YEARS	780-C3744Z+P2CMI36	2	17,644.48	1		17,644.48
Mellanox Ethernet Cable, 100GbE QSFP28/1m/Passive Copper	MCP1600-C001E30N	2	98.00	9	882.00	
				Sub-Total	25,230.00	17,644.48
Software						
Red Hat Enterprise Linux Server with Premium Support 1 Year	RH00003	3	1,428.90	21		30,006.90
Machbase v8.0.50 Cluster Edition (includes 1y 7x24x4 Technical Support) (1 Set = 7 Node)	-	4	238,000	1	238,000.00	
Machbase v8.0.50 Cluster Edition 7x24x4 Technical Support (1 Set = 7 Node)	-	4	35,700	2		71,400.00
				Sub-Total	238,000.00	101,406.90
Infrastructure						
ViewSonic 21.5 Inch 16:9 Monitors	VSPF2150	5	64.99	3	194.97	
Multi-Device Keyboard and Mouse Combo	KYB-MUS-196CB	1	12.90	3	38.70	
				Sub-Total	233.67	-
Discounts*						
Machbase v8.0.50 Cluster Edition (includes 1y 7x24x4 Technical Support) (1 Set = 7 Node)	-				(32,200.00)	
Machbase v8.0.50 Cluster Edition 7x24x4 Technical Support (1 Set = 7 Node)	-					(9,660.00)
				Sub-Total	(32,200.00)	(9,600.00)
				Total	**$402,765.07 USD**	**$109,391.38 USD**

Price Source

1) Super Micro Computer Inc. 2) NVIDIA Inc. 3) RedHat Inc.
4) Machbase Inc. 5) ViewSonic Inc.

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*All discounts are based on US list prices and for similar quantities and configurations. Discounts for similarly sized configurations will be similar to those quoted here, but may vary based on the components in the configuration.

Three-Year Cost of Ownership:	**$512,156.45 USD**
IoTps:	**16,969,032.54**
USD/kIoTps:	**$30.18 USD**

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

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Numerical Quantities

Scale Factor	33,000,000,000

Performance Run (Run1)

Warmup Run Start Time	2025-11-12 13:33:58.000
Warmup Run End Time	2025-11-12 14:16:35.000
Warmup Run Elapsed Time	2,069.385
Measured Run Start Time	2025-11-12 14:16:36.000
Measured Run End Time	2025-11-12 14:49:36.000
Measured Run Elapsed Time	1,944.719
Performance Metric (IoTps)	**16,969,032.54**

Repeatability Run (Run2)

Warmup Run Start Time	2025-11-12 14:50:47.000
Warmup Run End Time	2025-11-12 15:28:22.000
Warmup Run Elapsed Time	2,240.408
Measured Run Start Time	2025-11-12 15:28:23.000
Measured Run End Time	2025-11-12 16:04:09.000
Measured Run Elapsed Time	1,915.284
Performance Metric (IoTps)	17,229,820.74

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Performance Run Report (Run1)

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TPCx-IoT Performance Metric (IoTps) Report

Test Run1 details : Total Time For Warmup Run In Seconds = 2,069.385

Test Run1 details : Total Time In Seconds = 1,944.719

Total Number of Records = 33,000,000,000

TPCx-IoT Performance Metric (IoTps): 16,969,032.54

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Repeatability Run Report (Run2)

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TPCx-IoT Performance Metric (IoTps) Report

Test Run2 details : Total Time For Warmup Run In Seconds = 2,240.408

Test Run2 details : Total Time In Seconds = 1,915.284

Total Number of Records = 33,000,000,000

TPCx-IoT Performance Metric (IoTps): 17,229,820.74

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Summary details of the run reports are show above. For the complete run reports, see the Supporting Files Archive.

TTA SUPERMICRO	**Machbase 8.0.50**	TPCx-IoT 2.1.2 TPC Pricing 2.9.0 Report Date Dec. 23, 2025

Revision History

Date	Edition	Description
Nov 13, 2025	First	Initial Publication