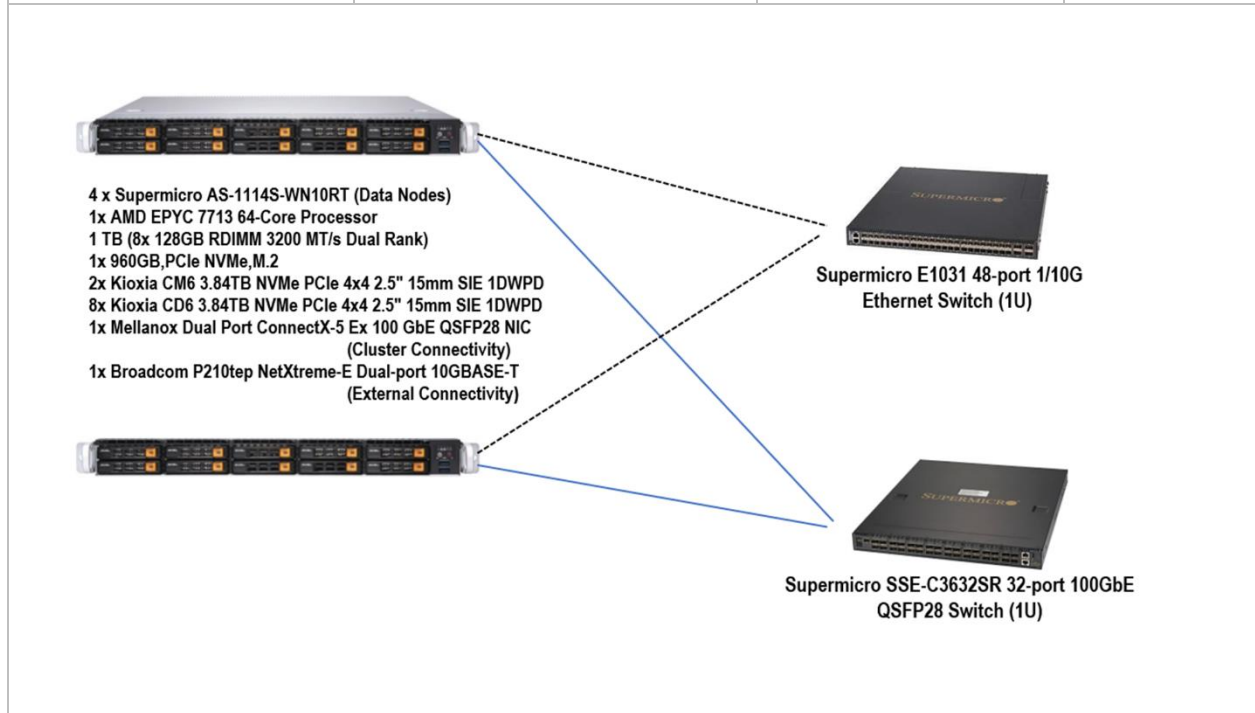
	<h1 style="text-align: center;">AS-1114S-WN10RT</h1>		TPCx-HCI 1.1.8
			TPC Pricing 2.7.0
			Report Date Nov. 30, 2021
Availability Date	TPCx-HCI Throughput	Price/Performance	Total System Cost
Currently Available	4,790.18 tpsHCI	\$49.60 USD / tpsHCI	\$237,573 USD

System Under Test Configuration Overview

Virtualization Software	Guest VM OS	Processor Description	Memory Size
VMware vSphere 7.0 Update 2	Red Hat Enterprise Linux 7.7	AMD EPYC 7713 2.0GHz, 256MB L3	4,096 GB




Data Accessibility Node Recovery Time: 2:05:38.00


4x AS-1114S-WN10RT each with:

- 1x AMD EPYC 7713 2.0 GHz (1 Proc/64 Cores/128 Threads)
- 8x 128 GB RDIMM 3200 MT/s Dual Rank
- 1x 960GB NVMe M.2
- 2x 3.84 TB CM6 NVMe
- 8x 3.84 TB CD6 NVMe
- 1x Mellanox Dual Port ConnectX-5 Ex 100 GbE
- 1x Broadcom P210tep NexXtreme-E Dual Port 10GBASE-T

1x Supermicro E1031 48-port 1/10 G Switch

1x Supermicro SSE-C3632SR 32-port 100 GbE Switch

		<h1>AS-1114S-WN10RT</h1>			TPCx-HCI 1.1.8 TPC Pricing 2.7.0 Report Date Nov. 30, 2021			
Description		Part Number	Key	Unit Price	Qty	Extended Price	3 yr. Maint. Price	
<i>HARDWARE COMPONENTS</i>								
Data Nodes								
H12SSW-NTR, CSE-116TS-R706WBP5-N10,RoHS	AS-1114S-WN10RT	1		\$1,477.00	4	\$5,908.00		
128GB DDR4-3200 4Rx4 LP (16Gb) ECC 3DS 2H RDIMM,RoHS	MEM-DR412L-HL01-EF	1		\$924.00	32	\$29,568.00		
Kioxia CM6 3.84TB NVMe PCIe 4x4 2.5" 15mm SIE 1DWPD	HDS-TUN-KCM6XRULE	1		\$875.00	8	\$7,000.00		
Kioxia CD6 3.84TB NVMe PCIe 4x4 2.5" 15mm SIE 1DWPD	HDS-TUN0-KCD6XLUL	1		\$616.00	32	\$19,712.00		
Mellanox ConnectX-5 EN network card 100GbE dual-port	AOC-MCX516A-CDAT	1		\$1,060.00	4	\$4,240.00		
Milan 7713 DP/UP 64C/128T 2.0G 256M 225W SP3	PSE-MLN7713-0344	1		\$7,029.00	4	\$28,116.00		
960GB,PCIe NVMe,M.2 22x80mm,3D TLC,1DWPD	HDS-MMN-MTFDHBA	1		\$182.00	4	\$728.00		
Broadcom P210tep NexXtreme-E Dual Port 10GBASE-T	(included)	1	(included)		4	(included)		
Out of Band Firmware Management License-BIOS Flash /Setting	SFT-OOB-LIC	1		\$15.00	4	\$60.00		
ASSEMBLY FEE	MC0037	1		\$25.00	4	\$100.00		
0% 3 YRS LABOR, 3 YRS PARTS, 1 YR CRS UNDER LIMITED WRNTY	EWCS	1	(included)		4		(included)	
On Site 4hrs 24x7x365 Support 3 Years with Extended Wrnty	OS4HR3	1		\$516.28	4	\$2,065.10		
Network and Cables								
E1031 48-port 1/10G Ethernet ToR switch	SSE-G3648BR	1		\$1,675.00	1	\$1,675.00		
Cumulus-Linux SW 1G perpetual license with 3 yr Cumulus	SFT-CLSPL1G-3Y	1		\$1,475.00	1	\$1,475.00		
On Site 4hrs 24x7x365 Support 3 Years with Extended Wrnty	OS4HR3	1		\$315.00	1		\$315.00	
32-port 100GbE QSFP28,B2F,2x800W R0872-F0004-01,HF	SSE-C3632SR	1		\$7,375.00	1	\$7,375.00		
Cumulus-Linux Software 100G Perpetual License with 3 yr SnS	SFT-CLSNWPL-100G-3	1		\$6,399.00	1	\$6,399.00		
On Site 4hrs 24x7x365 Support 3 Years with Extended Wrnty	OS4HR3	1		\$1,377.40	1		\$1,377.40	
ETHERNET,QSFP28,100GbE,PASSIVE,LSZH,3m,Molex,RoHS	CBL-NTWK-0943-SQ2	1		\$165.60	10	\$1,656.00		
ETHERNET,CAT6,RJ45,SNAGLESS,YELLOW,15FT (4.6M),28AWG,Ro	CBL-C6-YL15FT-P	1		\$12.80	5	\$64.00		
ETHERNET,CAT6,RJ45,SNAGLESS,GREEN,UTP,15FT(4.5M),28AWG,RoHS	CBL-C6-GN15FT-P	1		\$12.80	5	\$64.00		
Other Hardware Components								
42U Enclosure system	SRK-42SE-11	1		\$1,516.30	1	\$1,516.30		
Rack PDU, Switched, 2U, 30A, 208V, (16)C13	AP7911B	2		\$1,075.00	2	\$2,150.00		
PWCD,US,IEC60320 C14 TO C13,4FT,16AWG,RoHS/REACH	CBL-PWCD-0373-IS	1		\$7.70	12	\$92.40		
12 inches monitor with 4 year Equipment protection plan (incl. 2 spares)	LONCEVON-12	3		\$95.99	3	\$287.97		
Logitech MK200 Media Keyboard and Mouse Combo (incl. 2 spares)	920-002714	3		\$28.12	3	\$84.36		
						Subtotal	\$118,271.03	\$3,757.50
<i>SOFTWARE COMPONENTS</i>								
Red Hat Enterprise Linux for Virtual Datacenters, 3 Year Premium (2 sockets)	SFT-RH-RH00001F3	1		\$9,830.00	4	\$39,320.00		
VMware vSAN 7 Standard per CPU Socket (3 year Production Support 24X7 included)	SFT-VM-ST7STDC3Y	1		\$3,521.00	8	\$28,168.00		
VMware vSphere 7 Enterprise Plus per CPU Socket (3 year Production Support 24X7 included)	SFT-VM-VS7EPLC3Y	1		\$4,947.00	8	\$39,576.00		
VMware vCenter Server 7 Standard for vSphere 7 – Per Instance (3 year Production Support 24X7 included)	SFT-VM-VCS7STDC3Y	1		\$8,480.00	1	\$8,480.00		
						Subtotal	\$115,544.00	\$0.00
						Totals	\$233,815.03	\$3,757.50
Pricing: 1 = Supermicro; 2 = APC.com; 3 = Amazon.com		Three-Year Cost of Ownership:			\$237,573			
Audited by Doug Johnson, InfoSizing		TPCx-HCI Throughput:			4,790.18			
		\$ USD/tpsHCI:			\$49.60			
<p><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></p>								

		<h1>AS-1114S-WN10RT</h1>			TPCx-HCI	1.1.8
					TPC Pricing	2.7.0
					Report Date	Nov. 30, 2021
Guest VM Details						
Database Manager PostgreSQL 10.6	VM Memory (Total) 2,561 GiB	vCPUs (Total) 540	DB Initial Size 30,963.3 GB	Configured Customers 2,400,000	Active Customers 2,400,000	
Transaction Response Times (in seconds)						
Transaction Type		Min	Avg	90 th %	Max	
Broker-Volume		0.001	0.005	0.009	2.198	
Customer-Position		0.001	0.012	0.022	6.802	
Market-Watch		0.000	0.006	0.011	4.025	
Security-Detail		0.002	0.016	0.028	1.972	
Trade-Lookup		0.000	0.035	0.059	2.627	
Trade-Order		0.001	0.016	0.027	6.898	
Trade-Result		0.002	0.021	0.035	6.859	
Trade-Status		0.001	0.006	0.010	5.252	
Trade-Update		0.005	0.061	0.085	2.597	
Data-Maintenance		0.002	0.008	0.014	0.247	
Market-Feed		0.001	0.005	0.009	0.576	
Transaction Mix						
Transaction Type		Transaction Count		Mix Percentage		
Broker-Volume		13,449,322		3.900%		
Customer-Position		51,727,995		15.000%		
Market-Watch		58,624,997		17.000%		
Security-Detail		55,176,788		16.000%		
Trade-Lookup		31,036,456		9.000%		
Trade-Order		34,829,922		10.100%		
Trade-Result		34,489,302		10.001%		
Trade-Status		62,073,582		18.000%		
Trade-Update		3,448,571		1.000%		
Data-Maintenance		4,800		N/A		
Market-Feed		287,996		N/A		
Transaction Total				344,856,935		
Measurement Interval				02:00:00		
Business Recovery Time				00:14:40		
Redundancy Level Details				Redundancy Level 3		