

		<b>Supermicro A+ Server AS-2124BT-HTR</b>		TPCx-IoT: v2.0.0
				TPC-Pricing: v2.4.0
				Report Date: April 02, 2021
Total System Cost		TPCx-IoT Performance Metric		Price/Performance
<b>137,424 USD</b>		<b>253,178 IoTps</b>		<b>\$542.80 USD \$/kIoTps</b>
Number of Records	DBMS Software	Operating System	Other Software	Availability Date
400 Million	HBase 2.0.0 on Cloudera Distribution for Apache Hadoop 6.0.1	Red Hat Enterprise Linux Server Release 7.6	None	Aug 31, 2019
<b>System Configuration</b>				
<p><b>1x Supermicro A+ Server AS-2124BT-HTR</b> BigTwin™ with 4x H12DST-B Nodes, each with:</p> <ul style="list-style-type: none"> <li>1x AMD EPYC 7502P 32-Core Processor</li> <li>256 GB (8x 32GB RDIMM 2666MT/s Dual Rank)</li> <li>1x 960GB M.2 PCIe Gen3</li> <li>1x Mellanox Dual Port 25GbE SFP28 NIC</li> <li>2x <b>Micron 5200 PRO 2.5 SSD 1920GB (Data Nodes)</b></li> </ul>				
		 <p>Mellanox SN2410 Network Switch (48-port 25GbE + 8-port 100GbE)</p>		
Total Number of Servers:		1x Supermicro A+ Server AS-2124BT-HTR (BigTwin™ with 4x H12DST-B Nodes)		
Total Processors/Cores/Threads:		4/128/256		
Server Configuration (each)		Processors	1x AMD EPYC 7502P 2.5GHz 32-Core	
		Memory	256GB	
		Storage Device	1x 960GB M.2 PCIe Gen3 (all nodes)	
			2x Micron 5200 PRO 2.5 SSD 1920GB (Data Nodes)	
		Network	1x Supermicro AOC-MH25G-m2S2T Dual Port 25GbE SFP28 NIC	
		Connectivity:	Mellanox SN2410 Network Switch	
Total Rack Units:		(2x217BH-22H12) + (1xSN2410) = (2x1) + (1x1) = 3RU		



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Description	Part Number	Key	Unit Price	Qty	Extended Price	3 yr. Maint. Price
<b>HARDWARE COMPONENTS</b>						
Supermicro Model 217BH-22H12 - Rail, Power Cord (included)	AS-2124BT-HTR	1	\$4,999.00	1	\$4,999.00	
AMD EPYC™ 7502P 2.5GHz/3.35GHz, 32C/64T 180W	PSE-ROM7502P-0045	1	\$2,296.00	4	\$9,184.00	
SK hynix 32GB 2Rx4 PC4-2666V-RB2-11 HMA84GR7AFR4N-VK	HMA84GR7AFR4N-VK	1	\$148.50	32	\$4,752.00	
M.2 Model : MZ-1LW9600	MZ1LW960HMLP-00003	1	\$148.00	4	\$592.00	
Micron 5200 PRO 2.5 SSD 1920GB	MTFDDAK1T9TDD-1AT1ZABYY	1	\$272.50	6	\$2,180.00	
25GbE Network Adapter	AOC-MH25G-m2S2TM	1	\$249.90	4	\$999.60	
4-hour 7x24 On-site Service 3years	OS4HR3	1	\$1,281.64	1		\$1,281.64
Mellanox SN2410 Switch	MSN2410-CB2F	2	\$25,387.00	1	\$25,387.00	
Mellanox Tech Support and Warranty - Silver 3 years with 4 Hours On-Site Support for SN2000 Series Switch	SUP-SN2000-3S-4H	2	\$2,475.00	1		\$2,475.00
Mellanox MCP2M00-A001E30N Ethernet Passive Copper Cable 25GbE SFP28 1m Black 30AWG CA-N	MCP2M00-A001E30N	2	\$52.00	5	\$260.00	
12U Open Frame Server Rack - Adjustable Depth - 4-Post Data Rack	4POSTRACK12U	2	\$195.99	1	\$195.99	
NEMA 5-15P to IEC320 C15 14AWG 125V/15A	P515C15-15ABE-10	2	\$10.00	1	\$10.00	
24" LED Monitor		2	\$79.00	1	\$79.00	
Keyboard and Mouse		2	\$14.56	1	\$14.56	
Subtotal					\$48,653.15	\$3,756.64
<b>HARDWARE COMPONENTS</b>			<b>Subtotal</b>		<b>\$48,653.15</b>	<b>\$3,756.64</b>



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TPCx-IoT v2.0.0

TPC-Pricing v2.4.0

Report Date: April 02, 2021

Description	Part Number	Key	Unit Price	Qty	Extended Price	3 yr. Maint. Price	
<b>SOFTWARE COMPONENTS</b>							
Cloudera Enterprise Operational DB Edition, Node License, 24x7, 1YR		2	\$6,000.00	12		\$72,000.00	
Red Hat Enterprise Linux 7.6, 3yr Premium Subscription		1	\$3,276.86	4		\$13,107.44	
<b>SOFTWARE COMPONENTS</b>					Subtotal	\$0.00	\$85,107.44
<b>Total</b>						\$48,653.15	\$88,864.08
					<b>Three-Year Cost of Ownership : \$137,517</b>		
Pricing : 1 Supermicro (based upon total system cost as purchased by a regular customer)					<b>IoTps : 253,178.82</b>		
Pricing : 2 Obtained from third-party or online					<b>\$ / kIoTps : \$542.80</b>		

*Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated components. 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 components. For complete details, see the pricing sections of the TPC benchmark specifications. If you find that the stated prices are not available according to these terms, please inform the TPC at [pricing@tpc.org](mailto:pricing@tpc.org).*

	<b>Supermicro A+ Server AS-2124BT-HTR</b>	TPCx-IoT v2.0.0
		TPC-Pricing v2.4.0
		Report Date: April 02, 2021
Measurement Results for Performance Run		
Total Number of Records	400 Million	
Warmup Run - Start Time	2019-07-08 10:22:29	
Warmup Run - End Time	2019-07-08 11:02:46	
Warmup Run Elapsed Time in Seconds	2,415.396	
Measured Run Start Time	2019-07-08 11:02:46	
Measured Run End Time	2019-07-08 11:29:07	
Total Time In Seconds	1,579.911	
Measurement Results for Repeatability Run		
Total Number of Records	400 Million	
Warmup Run Start Time	2019-07-08 11:44:18	
Warmup Run End Time	2019-07-08 12:14:37	
Warmup Run Elapsed Time in Seconds	1,819.021	
Measured Run Start Time	2019-07-08 12:14:37	
Measured Run End Time	2019-07-08 12:40:38	
Total Time In Seconds	1,560.441	



**Supermicro A+ Server  
AS-2124BT-HTR**

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Report Date: April 02, 2021

### Run Report for Performance Run

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TPCx-IoT Performance Metric (IoTps) Report

Total Time For Warmup Run In Seconds = 2415.396

Total Time In Seconds = 1579.911

Total Number of Records = 400 Million

TPCx-IoT Performance Metric (IoTps): 253178.8183

### Run Report for Repeatability Run

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TPCx-IoT Performance Metric (IoTps) Report

Total Time For Warmup Run In Seconds = 1819.021

Total Time In Seconds = 1560.441

Total Number of Records = 400 Million

TPCx-IoT Performance Metric (IoTps): 256337.7916