

TPC-C Full Disclosure Report

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## Goldilocks v3.1 Standard Edition on LTechkorea L224S-D

TPC-C Version 5.11.0 TPC Pricing 2.7.0 Report Date 30-Aug-2021 Available Now

		Source	Unit Price	Available Now		
Description	Part Number			Qty	Price	3-Yr. Maint. Price
Server Hardware						
DB Server – L224S-D Server	L224S-D	1	207,494,400	1	207,494,400	
Intel® Xeon® Gold 6258R 28C/56Th 2.7Ghz (Up To 4Ghz)	-	1	(included)	2		
128GB fully buffered DDR4 Memory, LRDIMM	-	1	(included)	12		
SSD 1TB, Enterpeise	-	1	(included)	2		
RAID Controller - LSI 9361 8i	-	1	(included)	1		
Intel® Ethernet Server Adapter I350-T2V2	-	1	(included)	1		
Intel® Ethernet Converged Network Adapter X550-T2	-	1	(included)	1		
QLE 2692 PCI-e 3.0 - 16G Fc gbic	-	1	(included)	1		
224S-D Server(power 920watt) 2.5 inch disk bay * 24EA	-	1	(included)	1		
Maintenance - 7x24x4 Care Pack (3-yrs)	-	1	(included)	1		
WAS Servers (per server) - DT-S170G1IV0	DT-S170G1IV0	2	1,551,000	5 <sup>1</sup>	7,755,000	
Intel® Core Processor i7-10700K, 3.8GHz		2	(included)	1	,,	
DDR4 32GB, Samsung, UDIMM PC4-25600U		2	(included)	1		
Seagate Barracuda ST2000DM008 2 TB 3.5"		2	(included)	1		
HP SSD EX900 500GB		2	(included)	1		
Server Hardware Sub Total					215,249,400	
Storage Hardware						
All Flash Storage - FCH2800	FCH2800	3	72,250,000	1	72,250,000	
FCH2800 Controller Device	T0001-0117-00	3	(included)	1		
Back-end Bus Adapter 12G SAS	T0001-0117-01	3	(included)	1		
16G 8-Port Host Bus Adapter	T0001-0117-02	3	(included)	4		
Cache Interconnect Adapter	T0001-0117-03	3	(included)	1		
Cache Memory DDR-3 (32GB)	T0001-0117-04	3	(included)	16		
FCH2800 Flash Disk Drive Expantion Unit	T0001-0117-05	3	(included)	1		
FCH2800 controller cpu Board	T0001-0117-06	3	(included)	1		
Rack 600x1200x2010 mm (WxDxH) 42U	T0001-0117-07	3	(included)	1		
Storage Management SW	T0001-0117-08	3	(included)	1		
UTP CAT5e Ethernet Cable 1M	61001-0001-00	3	(included)	1		
Power Cord, NICETECH, 2.5M	42119-0005-00	3	(included)	2		
1.6TB Flash Memory Disk Drive	T22601-0117-03	3	3,900,000	8	31,200,000	
3-yrs 24x7x4hrs Onsite Support Service	-	3	26,350,000	1		26,350,00
Storage Hardware Sub Total					103,450,000	26,350,000

<sup>1</sup> The number of WAS Servers in SUT is 3, But priced condition includes 2 spares for replaceable items. (TPC Pricing 2.7.0 - 4.3.2)

Client/Server Software									
Red Hat Enterprise Linux Server Standard 3yrs	RH000	04	4	4,098,000	4	16,392,000			
RHEL Server Standard Maintenance - 3yrs 24x7x4hrs	RP-CSP(OS)		4	5,000,000	4		20,000,000		
Red Hat JBoss Web Server 4-Core Standard 3Year	MW00123F3		4	2,138,000	6	12,828,000			
JBoss Web Server per 4Core 3Year Maintenance	RP-CSP(WAS)		4	12,000,000	6		72,000,000		
Goldilocks v3.1 Standard Edition	-		5	96,000,000	1	96,000,000			
Goldilocks v3.1 Standard Edition Technical Supports	-		5	10,000,000	3		30,000,000		
Software Sub Total						125,220,000	122,000,000		
Other Hardware									
UbiQuoss uSafe3010-24ps (10G, 24-port)(w/spares)	229178	389	6	1,900,000	3	5,700,000			
Other Hardware Sub Total						5,700,000			
Discounts*									
HW Discount - DB Server(L224S-D)						-181,557,600			
Red Hat OS Discount						-6,792,000	-12,000,000		
Red Hat JBoss Discount						-5,268,000	-36,000,000		
SW Discount - Goldilocks						-64,000,000	-15,600,000		
Discounts Sub Total						-257,617,600	-63,600,000		
Total						192,001,800	84,750,000		
Pricing Notes   1) LTechKorea Inc. 4) Rockplace Inc.   2) Hansung Corporation. 5) Sunjesoft Inc.   3) UNIWIDE Technologies Inc. 6) UbiQuoss Inc.   All of the prices are based on South Korea's currency, KRW   (₩, Korean Won) and excluded VAT.   * All discounts are based on Korea 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 KRW(₩): 276,751,800 TPC-C throughput: 144,714 tpmC Price/Performance: 1,913 ₩ / tpmC						

## Benchmark implementation and results independantly audited by Doug Johnson of InfoSizing (www.sizing.com)

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 pricing specifications. If you find that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.



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MQTh, computed Maximum Qualified Throughput 144,714 tpmC **Response Times (seconds)** Min Average 90<sup>th</sup> Max New-Order 0.102 0.104 0.104 0.912 Payment 0.102 0.103 0.103 0.715 Order-Status 0.102 0.103 0.102 0.712 Delivery (interactive portion) 0.101 0.397 0.101 0.101 Delivery (deferred portion) 0.002 0.006 0.006 0.674 Stock-Level 0.103 0.706 0.102 0.103 Menu 0.507 0.101 0.101 0.102 Emulated Display Delay: 0.1 sec. Transaction Mix Percent Number New-Order 44.979% 60.782.381 Payment 43.012% 58,123,521 Order-Status 4.003% 5,408,747 Delivery 4.003% 5,409,721 Stock-Level 4.003% 5,409,646 Keying Times (seconds) Min Average Max New-Order 18.001 18.001 18.004 Payment 3.001 3.006 3.001 Order-Status 2.001 2.001 2.002 Delivery 2.001 2.001 2.003 Stock-Level 2.001 2.001 2.002 Think Times (seconds) Min Average Max New-Order 0.001 12.044 120.501 Payment 0.001 12.045 120.501 Order-Status 0.001 10.052 100.501 Delivery 0.001 50.301 5.028 Stock-Level 0.001 5.030 50.301 **Test Duration** Ramp-up time 65 min Measurement Interval (MI) 420 min 14 Checkpoints in MI Checkpoint Interval (Average / Max) 29:22 min / 29:23 min Number of Transactions in MI (all types) 135,134,016

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