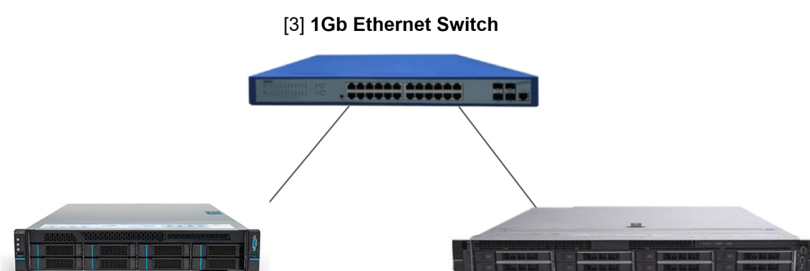
	Goldilocks v3.1 Standard Edition on UNIWIDE RE2212			TPC-C Version 5.11.0 TPC Pricing 2.9.0
				Report Date 15-Jul-2025
Total System Cost	TPC-C Throughput	Price/Performance		Availability Date
₩ 374,195,000 (KRW)	101,562 tpmC	3,685 KRW/tpmC		Available Now
Server Processors/Cores/Threads	Database Manager	Operating System	Other Software	Number of Users
2/96/192	Goldilocks v3.1 Standard Edition	RHEL 9.5	JBoss Web Server	80,000

Priced Configuration (UNIWIDE)




[2] Web Application Server

- 1 x KTNF KM-H620
- 2 x Intel(R) Xeon(R) Gold 6140 @ 2.30GHz
- 2 x 64GB Memory
- 2 x 600GB SATA HDD
- 1 x 2-port 10G Ethernet
- 1 x 3-port 1G Ethernet


[1] Database Server

- 2 x Intel(R) Xeon(R) Platinum 8468
- 16 x 64GB (1024GB) Memory (Samsung DDR5)
- 2 x 480GB SSD(SAMSUNG MZ7WD480HAGM U.2 480GB)
- 4 x 1.92TB NVMe SSD(FADU Delta U.2 1.92TB)
- 2 x 3.84TB NVMe SSD(Micron_9300_MTFDHAL3T2DR)
- 2 x BROADCOM BCM57840 NDC 10GBE 2 PORT NETWORK
- 1 x 4-port 1G Ethernet

System Components	DB Server		WAS Server	
	Quantity	Description	Quantity	Description
Processors/Cores/Threads	2/96/192	Intel(R) Xeon(R) Platinum 8468	2/36/72	Intel(R) Xeon(R) Gold 6140 @ 2.30GHz
Memory	16	64GB	2	64GB
Storage Device	2	480GB SATA SSD	2	600GB SATA HDD
	4	1.92TB NVMe SSD		
	2	3.84TB NVMe SSD		

	Goldilocks v3.1 Standard Edition on UNIWIDE RE2212			TPC-C Version 5.11.0 TPC Pricing 2.9.0		
				Report Date 15-Jul-2025		
				Available Now		
Description	Part Number	Source	Unit Price	Qty	Price	3-Yr. Maint. Price
Server Hardware						
DB Server – UNIWIDE(RE2212)	RE2212	1	113,559,000	1	249,905,000	
RE2212(1G*4,1600W(1+1),NO RAID,NO GPU supportable)3.5x12	SVR-UNI-RE2212-0011	1	26,438,000	1	26,438,000	
Intel Xeon Platinum 8468 48C/96T 2.1GHz 105M 350W	CPU-ING4-0390	1	65,738,000	2	131,476,000	
64GB DDR5-4800 R ECC	MEM-D5R48-RP-0030	1	2,838,000	16	45,408,000	
SSD SATA 480GB 2.5 인치 U.2	-	1	850,000	2	1,700,000	
SSD NVMe PCIe5.0 1.92TB 2.5 인치 U.2	SSD-NVHE-SA-0080	1	5,625,000	4	22,500,000	
SSD NVMe PCIe5.0 3.84TB 2.5 인치 U.2	SSD-NVHE-SA-0090	1	10,313,000	2	20,626,000	
CARD LAN 10G 4port UTP	LAN-10G2PR-RP-0010	1	1,757,000	1	1,757,000	
3year, 24x7x4hr Onsite Support Service 1	Maintenance	1	18,270,000	1	-	18,270,000
WAS Servers (per server) - KR580S1(KM-H620)	DT-S170G1IV0	2	18,500,000	1	18,500,000	
Intel Xeon Scalable Gold 6140 (2.30GHz, 18core)	CPU	2	(included)	2		
64GB DDR4 ECC RDIMM Memory	Memory	2	(included)	2		
600GB SAS 12Gb/s 10K RPM (128MB)	HDD	2	(included)	1		
3year, 24x7x4hr Onsite Support Service 1	Maintenance	2	(included)	1		
Server Hardware Sub Total					268,405,000	18,270,000
Client/Server Software						
Red Hat Enterprise Linux Server Standard 3yrs	RH00004	3	6,223,800	2	12,447,600	
RHEL Server Standard Maintenance - 3yrs 24x7x4hrs	RP-CPS(OS)	3	8,000,000	2		16,000,000
Red Hat JBoss Web Server 18-Core Standard 3Year	MW0232248	4	13,335,300	2	26,670,600	
JBoss Web Server per 4Core 3Year Maintenance	RP-CPS(WAS)	4	12,000,000	9		108,000,000
Goldilocks v3.1 Standard Edition	-	4	384,000,000	1	384,000,000	
Goldilocks v3.1 Standard Edition Technical Supports	-	4	192,000,000	3		576,000,000
Software Sub Total					423,118,200	700,000,000
Other Hardware						
Network switch, DASAN Networks, (CN)D2224GP, 24port POE	24567061	5	1,295,000	3	3,885,000	
Other Hardware Sub Total					3,885,000	

<u>Discounts*</u>							
DB Server Discount						-199,915,000	0
Red Hat OS Discount						-4,447,600	-10,000,000
Red Hat JBoss Discount						-10,920,600	-27,000,000
SW Discount - Goldilocks						-268,800,000	-518,400,000
Discounts Sub Total						-484,083,200	-555,400,000
Total						211,325,000	162,870,000
<u>Pricing Notes</u> 1) UNIWIDE Inc. 2) KTNF Inc. 3) Rockplace Inc.		Three year cost of ownership KRW(₩): 374 ,195,000 TPC-C throughput: 101,562 tpmC Price/Performance: 3,685 ₩ / tpmC					
4) Sunjesoft Inc. 5) 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.							
Benchmark implementation and results independantly audited by Doug Johnson of InfoSizing (www.sizing.com)							
<i>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.</i>							

	Goldilocks v3.1 Standard Edition on UNIWIDE RE2212			TPC-C Version 5.11.0 TPC Pricing 2.9.0
				Report Date 15-Jul-2025
				Available Now
MQTh, computed Maximum Qualified Throughput		101,562 tpmC		
Response Times (seconds)	Min	Average	90 th	Max
New-Order	0.102	0.105	0.105	20.855
Payment	0.102	0.104	0.104	18.687
Order-Status	0.102	0.104	0.104	4.555
Delivery (interactive portion)	0.101	0.101	0.101	0.198
Delivery (deferred portion)	0.001	0.025	0.012	24.286
Stock-Level	0.102	0.105	0.107	20.888
Menu	0.101	0.102	0.102	0.319
Emulated Display Delay: 0.1 sec.				
Transaction Mix	Percent	Number		
New-Order	44.980%	42,656,350		
Payment	43.011%	40,789,344		
Order-Status	4.002%	3,795,584		
Delivery	4.003%	3,796,400		
Stock-Level	4.003%	3,796,408		
Keying Times (seconds)	Min	Average	Max	
New-Order	18.001	18.001	18.002	
Payment	3.001	3.001	3.002	
Order-Status	2.001	2.001	2.002	
Delivery	2.001	2.001	2.002	
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	12.041	120.501	
Order-Status	0.001	10.050	100.501	
Delivery	0.001	5.031	50.301	
Stock-Level	0.001	5.025	50.301	
Test Duration				
Ramp-up time	65 min			
Measurement Interval (MI)	420 min			
Checkpoints in MI	14			
Checkpoint Interval (Average / Max)	28:18 min / 28:20 min			
Number of Transactions in MI (all types)	94,834,086			