



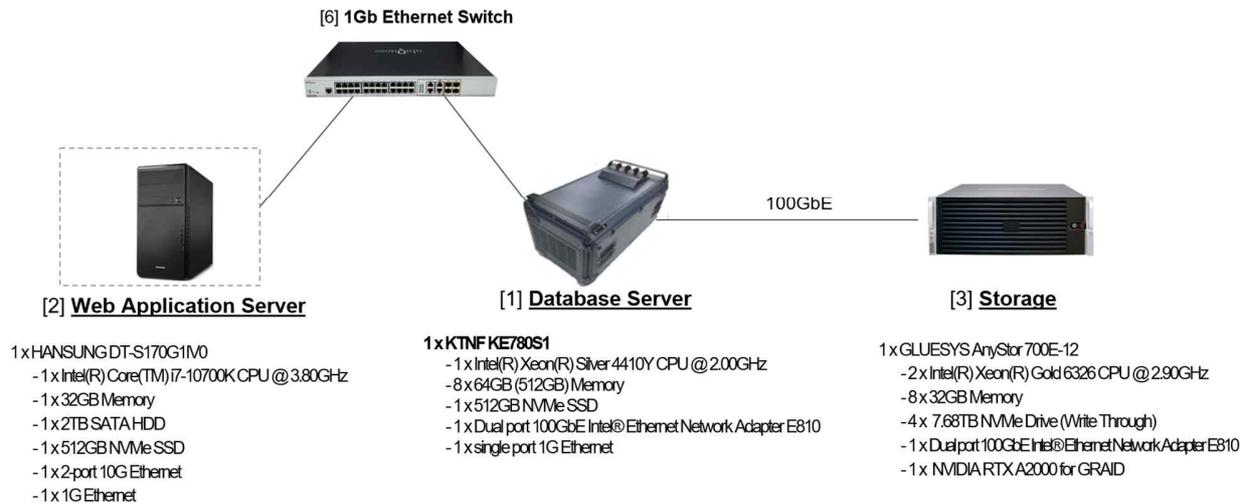
Goldilocks v3.1 Standard Edition on KTNF KE780S1

TPC-C Version 5.11.0
TPC Pricing 2.9.0

Report Date
25-Jan-2024

Total System Cost	TPC-C Throughput	Price/Performance		Availability Date
₩ 163,820,700 (KRW)	50,768 tpmC	3,227 KRW/tpmC		Available Now
Server Processors/Cores/Threads	Database Manager	Operating System	Other Software	Number of Users
1/12/24	Goldilocks v3.1 Standard Edition	RHEL 9.0	JBoss Web Server	40,000

Priced Configuration (KTNF)



System Components	DB Server		WAS Server	
	Quantity	Description	Quantity	Description
Processors/Cores/Threads	1/12/24	Intel(R) Xeon(R) Silver 4410Y @ 2.00GHz	1/8/16	Intel(R) Core(TM) i7-10700K CPU @ 3.80GHz
Memory	8	64GB	1	32GB
Storage Controller	-	None	-	None
Storage Device	1	512GB NVMe SSD (Write Through)	1	1TB SATA HDD
	4	7.68TB NVMe SSD (External, Write Through)	1	512GB SATA SSD
Total Storage Capacity		31.232 TB		



Goldilocks v3.1 Standard Edition on KTNF KE780S1

TPC-C Version 5.11.0
TPC Pricing 2.9.0

Report Date
25-Jan-2024

Available Now

Description	Part Number	Source	Unit Price	Qty	Price	3-Yr. Maint. Price
Server Hardware						
DB Server - KTNF(KE780S1)	KE780S1	1	43,000,000	1	43,000,000	
4th Gen intel Xeon Scalable Processor Silver 4410Y	CPU	1	(included)	1		
64GB DDR5 4800RDIMM	RAM	1	(included)	8		
Dual port 100GbE Intel® Ethernet Network Adapter E810	NIC	1	(included)	1		
512GB M.2 NVMe SSD	SSD	1	(included)	1		
3year, 24x7x4hr Onsite Support Service	Maintenance	1	(included)	1		
WAS Servers - DT-S170G1IV0						
WAS Servers - DT-S170G1IV0	DT-S170G1IV0	1	8,000,000	1	8,000,000	
Intel® Core Processor i7-10700K, 3.8GHz	CPU	1	(included)	1		
DDR4 32GB, Samsung, UDIMM PC4-25600U	RAM	1	(included)	1		
2TB SATA HDD	HDD	1	(included)	1		
512 M.2 NVMe SSD	SSD	1	(included)	1		
2port 10G RJ-45 Adapter	NIC	1	(included)	1		
1port 1G RJ-45 Adapter	NIC	1	(included)	1		
3year, 24x7x4hr Onsite Support Service	Maintenance	1	(included)	1		
Server Hardware Sub Total					51,000,000	
Storage Hardware						
Anystor 700E-12	ASE700E-12	2	97,000,000	1	97,000,000	
Intel® Xeon Gold 6326 Processor (16Core, 2.9GHz, 24MB Cache)	-	2		2		
32GB ECC Registered Memory	-	2		8		
2-port 10G RJ45 & 2-port 10G SFP+, Intel X710-TM4	-	2		1		
Hot-Swappable 12 SAS or SATA Disk Bay	-	2		1		
PCIe Gen4 x16 RAID SupremeRAID Core Software Module License with Full features, supports 32 native NVMe drives and NVMe-oF	-	2		1		
AnyStor-E NAS 전용 O/S (480GB SSD X2EA, RAID1)	OS	2		1		
SAMSUNG PM9A3, 7.68TB U.2 PCIe 4.0 NVMe (SAMSUNG MZQL27T6HBLA-00A07)	Disk Drive	2	1,250,000	4	5,000,000	
Dual-Port QSFP28 100GbE Network Card	NIC Card	2	2,500,000	1	2,500,000	
100G QSFP28 Cable 3M (MCP1600-C003E26N)	NIC Cable	2	300,000	2	600,000	
Premium Package 3-Year Support & Maintenance	Support & Maintenance	2	12,000,000	1		12,000,000
Storage Hardware Sub Total					105,100,000	12,000,000
Client/Server Software						
Red Hat Enterprise Linux Server Standard 3yrs	RH00004F3	3	4,089,000	2	8,178,000	
RHEL Server Standard Maintenance - 3yrs 24x7x4hrs	RP-CPS(OS)	3	8,000,000	2		16,000,000
Red Hat JBoss Web Server 4-Core Standard 3Year	MW00123F3	3	1,944,000	2	3,888,000	
JBoss Web Server per 4Core 3Year Maintenance	RP-CPS(WAS)	3	12,000,000	2		24,000,000



Goldilocks v3.1 Standard Edition on KTNF KE780S1

TPC-C Version 5.11.0
TPC Pricing 2.9.0

Report Date
25-Jan-2024

Available Now

MQTh, computed Maximum Qualified Throughput **50,768 tpmC**

Response Times (seconds)	Min	Average	90 th	Max
New-Order	0.102	0.11	0.103	12.348
Payment	0.102	0.108	0.103	8.922
Order-Status	0.102	0.107	0.102	3.882
Delivery (interactive portion)	0.101	0.104	0.101	3.284
Delivery (deferred portion)	0.001	0.019	0.005	8.919
Stock-Level	0.102	0.108	0.103	3.882
Menu	0.101	0.105	0.102	3.308

Emulated Display Delay: 0.1 sec.

Transaction Mix	Percent	Number
New-Order	44.980%	21,322,770
Payment	43.011%	20,389,345
Order-Status	4.003%	1,897,459
Delivery	4.003%	1,897,757
Stock-Level	4.003%	1,897,541

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	2.001

Think Times (seconds)	Min	Average	Max
New-Order	0.001	12.041	120.501
Payment	0.001	12.040	120.501
Order-Status	0.001	10.037	100.501
Delivery	0.001	5.032	50.301
Stock-Level	0.001	5.028	50.301

Test Duration	
Ramp-up time	65 min
Measurement Interval (MI)	420 min
Checkpoints in MI	14
Checkpoint Interval (Average / Max)	29:21 min / 29:22 min
Number of Transactions in MI (all types)	47,404,872