

CyberServe Xeon SP2 112T-12NVME G4

Dual 4th Gen Intel Xeon Scalable processor, dual 10Gb/s LAN port, redundant power supply, 12 x 2.5" NVMe/SATA/SAS hot-swappable bays

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RRP: \$24,057.43

Ex. GST

\$19,245.94

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further information

<https://www.broadberry.com.au/xeon-scalable-processor-gen4-rackmount-servers/cyberserve-xeon-sp2-112t-12nvme-g4>

System Summary

Chassis	Broadberry Cyberserve Xeon SP2 112T-12NVME G4
Processor	2x Intel Xeon Gold 5412U Processor 24 Cores (45M Cache, 2.10/3.90 Ghz) 185W
Memory	4x 64GB 4800MT/s DDR5 ECC Registered DIMM Module
Hard Drive	6x Micron 5400 PRO 960GB SATA 2.5" (7mm) Non-SED Enterprise SSD
M.2 Internal Solid State Drives	1.0TB Micron 3400 M.2 PCIe 4.0 x4 NVMe Solid State Drive
PCI Express Expansion	Intel X710-T2L - 10GbE Dual-Port RJ45 Server Adaptor
Trusted Platform Module (TPM)	TPM 2.0 - Trusted Platform Module with TCG 2.0
Total Price:	\$19,245.94

Your Configured System Specifications

Broadberry Cyberserve Xeon SP2 112T-12NVME G4					
2x Intel Xeon Gold 5412U Processor 24 Cores (45M Cache, 2.10/3.90 GHz) 185W					
Features		Processor		Technical details	
Commodity Classification Automated Tracking System (CCATS)		Maximum internal memory		Intel Virtualization Technology (VT-x)	
G180729		4000 GB		Y	
Execute Disable Bit		Box		Intel Virtualization Technology for Directed I/O (VT-d)	
N		N		Y	
Export Control Classification Number (ECCN)		High priority core frequency		Intel VT-x with Extended Page Tables (EPT)	
SA992C		2.3 GHz		Y	
Market segment		High priority cores		Intel® AES New Instructions (Intel® AES-NI)	
Server		0		Y	
Maximum number of PCI Express lanes		Low priority cores		Intel® Boot Guard	
80		16		Y	
PCI Express slots version		Processor base frequency		Intel® Control-flow Enforcement Technology (CET)	
5.0		2.1 GHz		Y	
Scalability		Processor boost frequency		Intel® Crypto Acceleration	
15		3.9 GHz		Y	
Supported instruction sets		Processor cache		Intel® Deep Learning Boost (Intel® DL Boost)	
AMX, SSE4.2, AVX, AVX 2.0, AVX-512		45 MB		Y	
Use conditions		Processor codename		Intel® Hyper Threading Technology (Intel® HT Technology)	
Server/Enterprise		Sapphire Rapids		Y	
Graphics		Processor family		Intel® Optane® DC Persistent Memory Supported	
Discrete graphics card		Intel® Xeon®		Y	
N		Processor generation		Intel® OS Guard	
Discrete graphics card model		Intel Xeon Scalable 4th Gen		Y	
Not available		Processor manufacturer		Intel® Platform Firmware Resilience Support	
On-board graphics card		Intel		Y	
N		Processor model		Intel® QuickAssist Technology (Intel® QAT)	
On-board graphics card model		5412U		Y	
Not available		Processor operating modes		Intel® Resource Director Technology (Intel® RDT)	
Logistics data		64-bit		Y	
Harmonized System (HS) code		FCLGA4677		Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	
8542310001		Processor threads		Y	
Memory		Stepping		Intel® Speed Shift Technology	
ECC		S3		Y	
Y		Thermal Design Power (TDP)		Intel® Total Memory Encryption	
Maximum internal memory supported by processor		185 W		Y	
6000 GB		Processor special features		Intel® Turbo Boost Technology	
Memory channels		AVX-512 Fused Multiply-Add (FMA) units		2.0	
Octa-channel		2		Intel® Turbo Boost Technology	
Memory types supported by processor		Intel 64		Y	
DDR5-SDRAM		Y		Maximum Enclave Size Support for Intel® SGX	
Operational conditions		Intel Software Guard Extensions (Intel SGX)		128 GB	
Tcase		Y		Mode-based Execute Control (MBE)	
81 °C		Y		Y	
Other features		Intel Trusted Execution Technology		Memory speed (max)	
4x 64GB 4800MT/s DDR5 ECC Registered DIMM Module		Y		4400 MHz	
Features		Internal memory		Memory clock speed	
Buffered memory type		64 GB		4800 MHz	
Registered (buffered)		DDR5		Memory voltage	
CAS latency		Y		1.1 V	
40		6x Micron 5400 PRO 960GB SATA 2.5" (7mm) Non-SED Enterprise SSD		Weight & dimensions	
Features		SSD capacity		Operating temperature (T-T)	
Data transfer rate		960 GB		0 - 70 °C	
6 Gbit/s		SSD form factor		Depth	
Hardware encryption		2.5"		100.5 mm	
Y		Target workload		Height	
Interface		Read Intensive (RI)		7 mm	
Serial ATA III		Uncorrectable Bit Error Rate (UBER)		Weight	
Memory type		< 1 per 10^17 bits read		70 g	
3D TLC NAND		Logistics data		Width	
Random read (4KB)		Harmonized System (HS) code		69.8 mm	
95000 IOPS		84717070		1.0TB Micron 3400 M.2 PCIe 4.0 x4 NVMe Solid State Drive	
Random write (4KB)		Operational conditions		Intel X710-T2L - 10GbE Dual-Port RJ45 Server Adaptor	
33000 IOPS		Intel Data Direct I/O Technology		Design	
Security algorithms		Y		Internal	
256-bit AES		Intel Flexible Port Partitioning		Y	
Intel X710-T2L - 10GbE Dual-Port RJ45 Server Adaptor		Intel Virtual Machine Device Queues (VMDeq)		Network	
Y		Y		Maximum operating distance	
Interface		Intel Virtualization Technology for Connectivity (VT-c)		100 m	
Serial ATA III		Y		Other features	
Memory type		Intelligent Offloads		Bracket height	
3D TLC NAND		Y		Low-Profile (LP) / Full-Height (FH)	
Random read (4KB)		Interface type		Cable type	
95000 IOPS		PCIe v3.0 (B.OGT/s)		RJ45 Category 6, Category 6A, Category 5e up to 100m	
Random write (4KB)		Network interface card cable medium		Cabling type	
33000 IOPS		Copper		RJ45 Category 6, Category 6A, Category 5e up to 100m	
Security algorithms		Network interface card type		Commodity Classification Automated Tracking System (CCATS)	
256-bit AES		Server		NA	
Intel X710-T2L - 10GbE Dual-Port RJ45 Server Adaptor		On-chip QoS and Traffic Management		Controller type	
Y		Y		Intel® Ethernet Controller X710-AT2	
Export Control Classification Number (ECCN)		PCI-SIG® SR-IOV Capable		SA991	
Harmonized System (HS) code		Y		Export Control Classification Number (ECCN)	
8517620090		Y		Y	
TPM 2.0 - Trusted Platform Module with TCG 2.0		Product series		700 Series Network Adapters (up to 40GbE)	
Colour		Intel Flexible Port Partitioning		Speed & slot width	
Product colour		Y		8.0 GT/s, x8 Lane	
Black,Green		Intel Virtual Machine Device Queues (VMDeq)		Storage	
Operational conditions		Y		iSCSI, NFS	
Non operating altitude		Intel Virtualization Technology for Connectivity (VT-c)		Over	
-40 - 85 m		Y		Ethernet	
Operating temperature (T-T)		Intelligent Offloads		Target market	
-20 - 80 °C		Y		Artificial Intelligence, High Performance Computing	
Packing data		Interface type		Ports & interfaces	
Quantity		PCIe v3.0 (B.OGT/s)		Ethernet	
1		Network interface card cable medium		2	
Ports & interfaces		Network interface card type		LAN (RJ-45)	
Connectivity technology		Server		ports	
Wired		Y		Host interface	
Technical details		PCI-SIG® SR-IOV Capable		PCI Express	
Sensor type		Y		PCI version	
Low frequency		Y		3.0	
Weight & dimensions		System requirements		Compatible operating systems	
Dimensions (WxDxH)		https://www.intel.com/content/www/us/en/support/articles/000025890/network-and-i-o/ethernet-products.html		systems	
8 x 26 x 25 mm		Y		Y	
Image 1		Image 2		Image 3	

CyberServe Xeon SP2 112T-12NVME G4 features



3 Years Warranty as Standard

Buy with confidence knowing all Broadberry CyberServe rack servers are backed up by our 3 year warranty, with further warranty upgrade options available.



Trusted CyberServe Server Platform

The Broadberry range of CyberServe® rackmount are trusted as the server of choice for thousands of companies from SMBs to enterprise's across the globe.



Supports SATA Drives

This system can be configured with SATA drives for cost-effective 12gb/s storage.



Supports NVMe Drives

This system can be configured with NVMe drives, which are capable of significantly better performance than SATA and SAS.



Small Form Factor Storage

The CyberServe Xeon SP2 112T-12NVME G4 boasts high density storage and ultimate energy efficiency, catering for up to 12x High-Performance 2.5" SSD or Hard Drives



Fully VMWare Compatible

The CyberServe Xeon SP2 112T-12NVME G4 has been carefully crafted to ensure full compatibility with VMWare, making it an ideal choice for use as a virtualisation server



Configure with up to 4.1TB RAM

Ready for the most demanding enterprise applications, the Broadberry CyberServe Xeon SP2 112T-12NVME G4 can be configured with up to 32 DDR5 ECC Registered memory modules.

Bank Details:

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