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Servers Supporting Intel® Xeon® W Processors

ISO 9001:2015

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All Central Govt./State Govt./ PSU sectors supplies and services

A Five rated GeM Supplier

CCS - Server W7-2495X



No. 35/1, JB Estate, Avadi

+91 9025093923

ceo@ccsconquer.com

Chennai, Tamil Nadu-600054

www.ccsconquer.com



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INTRODUCING

Intel Xeon W7 Processors

Essentials

Product Collection	: Intel® Xeon® W Processor
Code Name	: Products formerly Sapphire Rapids
Vertical Segment	: Workstation
Processor Number	: W7-2495X
Lithography	: Intel 7

CPU Specifications

Total Cores	: 24
No. of Performance-cores	: 24
Total Threads	: 48
Max Turbo Frequency	: 4.80 GHz
Intel® Turbo Boost	
Max Technology 3.0 Frequency ‡	: 4.80 GHz
Intel® Turbo Boost Technology	
2.0 Frequency‡	: 4.60 GHz
Cache	: 45 MB Intel® Smart Cache
Processor Base Power	: 225 W
Maximum Turbo Power	: 270 W

Supplemental Information

Marketing Status	: Launched
Launch Date	: Q1'23
Use Conditions	: Workstation /Servers

Memory Specifications

Max Memory Size	
(Dependent on memory type)	: 2 TB
Memory Types DDR5-4800 (MT/s)	: Maximum Memory Speed 4800 MHz
Max No. of Memory Channels	: 4
ECC Memory Supported ‡	: Yes



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Expansion Options

Direct Media Interface (DMI) Revision	: 4.0
Scalability	: 1S Only
PCI Express Revision	: 5.0
Max No. of PCI Express Lanes	: 64

Package Specifications

Sockets Supported	: FCLGA4677
Package Carrier	: E1B
Max CPU Configuration	: 1
DTS Max	: 94 °C
TCASE	: 77
Package Size	: 77.5mm x 56.5mm

Advanced Technologies

Intel® Data Streaming Accelerator (DSA)	: 1 default devices
Intel® Advanced Matrix Extensions (AMX)	: Yes
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	: Yes
Intel® Speed Shift Technology	: Yes
Intel® Turbo Boost Max Technology 3.0	: Yes
Intel® Turbo Boost Technology ‡	: 2.0
Intel® Hyper-Threading Technology	: Yes
Intel® Transactional Synchronization Extensions	: Yes
Intel® 64 ‡	: Yes
Instruction Set	: 64-bit
Instruction Set Extensions	: Intel® SSE4.1, : Intel® AMX, : Intel® SSE4.2, : Intel® AVX2, : Intel® AVX-512
No. of AVX-512 FMA Units	: 2
Enhanced Intel SpeedStep® Technology	: Yes



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w7

Security & Reliability

Intel vPro® Eligibility ‡	: Intel vPro® Enterprise
Intel® Active Management Technology (AMT)	: Yes
Intel® Platform Firmware Resilience Support	: Yes
Intel® Control-Flow Enforcement Technology	: Yes
Intel® Total Memory Encryption	: Yes
Intel® AES New Instructions	: Yes
Intel® OS Guard	: Yes
Intel® Trusted Execution Technology	: Yes
Execute Disable Bit ‡	: Yes
Intel® Boot Guard	: Yes
Mode-based Execute Control (MBEC)	: Yes
Intel® Virtualization Technology with Redirect Protection (VT-rp)	: Yes
Intel® Virtualization Technology (VT-x)	: Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	: Yes



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CCS – Server W7-2495X – Tower Model

Features	Technical Specification	
Processor	Intel Xeon W7-2495X (up to 4.6 GHz with Intel Turbo Boost Technology, 45 MB L3 cache, 24 cores, 48 threads)	
Memory RAM	128GB DDR5 ECC 4800MHz (4 X 32GB)	
Storage controllers	Internal Controllers: PERC, H330, H730P, H740P, HBA330 External Controllers: H840, Up to12 Gbps SAS HBA Software RAID: S140	
Internal boot	Boot Optimized Storage Subsystem (BOSS): HWRAID 2 x M.2 SSDs 240GB, 480GB Internal Dual SD Module	
Drive bays	Front drive bays: Up to 24 x 2.5" SAS/SATA (HDD/SSD) with up to 12 NVMe PCIe SSD, max 184.32TB	
Graphics Card	NVIDIA RTX A2000 A2000 12GB (12 GB GDDR6 with error-correction code ECC)	
Storage / Hard Drive:	1x 1TB M.2 NVMe Gen4 SSD 1x 2TB HDD 3.5" 7200RPM	
Wireless Connectivity:	Wi-Fi-6E 2x2 & Bluetooth 5.0	
Power supplies	230V 50HZ - C14 PSU	
Dimensions	Form factor: Tower 19.4 x 47.00 x 48.5 cm; Packed: 57.2 x 32.8 x 61.2 cm	
Security	Kensington MicroSaver lock slot	
Network card options	4x 1GbE / 4x 10GbE / 2x 10GbE+ / 2x 1GbE, / 2x 25GbE	
I/O & Ports	Front ports: 1x USB Type-A, 3.2 Gen2, 1x USB Type-C 3.2 Gen2, 2x USB Type-A 3.2 Gen2, 1 x VGA Rear ports: 2 x USB 3.0, 2x USB Type-A, 1 x VGA (Optional) Video card: 2 x VG, 1x 3.5mm Audio Combo Jack	
Supported operating systems	Canonical® Ubuntu® Server LTS Citrix® Microsoft Windows Server®	Red Hat® Enterprise Linux SUSE® Fedora, DOS
Pre-installed Operating System	DOS	
BIOS and Security Technology	RAID (0,1), UEFI PXE Boot, TPM 2.0	
Keyboard and Mouse	Wired Full Size Chiclet Keyboard with Min 3 Quick Control Keys, Optical Mouse	
Diagnostics Tools	On-Board Hardware Health Diagnostics (RAM, HDD, Processor)	
Warranty Support	5 Years Comprehensive On-site Warranty	
Application Software Compatibility	Application Software Compatibility: Cadence, Adobe After Effects CS/CC, Matlab, PTC CREO, Dassault Systems, Catia, Delmia, SolidWorks, Ansys, Abaqus, MSC	
OEM-ready version available	The servers can look and feel as if they were designed and built by you. For more information, visit https://ccsconquer.com	



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