Compute Series X7000 - AMD



Professional Liquid Cooled Workstations

EK Fluid Works Compute Series workstations are designed for **researchers and deep learning developers** who demand the computing power typically reserved for rack-mount servers, but prefer a deskside solution.

Optimized for:

- Data Science
- Machine Learning & Deep Learning
- Scientific Computing



Quick Specs:

- 2nd Gen AMD EPYC CPUs
- 1x to 7x GPUs
- 128 GB to 512 GB ECC Memory
- 2 x 1600W PSUs

Innovation Sets Us Apart

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UNRIVALED THERMAL PERFORMANCE Liquid Cooling Unleashes Performance and Longevity

UNMATCHED FLEXIBILITY User Serviceable and Upgradeable



UNBEATABLE ACOUSTIC PERFORMANCE Extreme Performance Without Noise Pollution



UNDENIABLY BETTER ROI Better than Air Cooled – Better than other Liquid Cooled

Why Liquid Cooling?

UNPARALLELED COOLING PERFORMANCE

Water is more effective at removing heat, resulting in lower sustained operating temperatures.

QUIET OPERATION

Larger fans move more air at lower speeds and are almost imperceptible under normal operation.

GREATER PERFORMANCE OUTPUT

Eliminating thermal throttling removes bottlenecks and increases performance output.

INCREASED COMPUTE DENSITY

Liquid cooled GPUs occupy less space, allowing 2x – 3x compute power in the same cubic footprint.

LONGER LIFESPAN Liquid cooling eliminates thermal fatigue, allowing components to stay cooler and last longer.

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	ASRock Rack ROMED8-2T						
	Chipset Rome 7002						
Motherboard	Socket	LGA 4094					
	PCIe Lanes per GPU	16					
CPUs	Multi-Threading						
	AMD EPYC	7502P	7642	7702P			
	Frequency (GHz) Base / Boost	2.5 / 3.35	2.3 / 3.5	2.0 / 3.35			
	Cores / Threads	32 / 64	48 / 96	64 / 128			
Memory	Cooling	Liquid					
	128GB (4 x 32GB ECC), 256GB (8 x 32GB ECC), 512GB (8 x 64GB ECC)						
	DIMM Sockets	ckets 8 x DDR4					
	Speed	2666 / 2933 MHz					
	Error Correcting	ECC					
Expansion Slots	7 x PCle 4.0 x16						
	NVIDIA RTX A6000, Quadro RTX 8000, Quadro GV100, Tesla V100, A100						
GPUs	Max GPUs 7						
	Cooling Liquid						
	3x NVMe M.2 SSD / 8x SATA SSD or 6x SATA SSD + 1x ODD (w/ 7 GPUs: 2x NVMe M.2 SSD / 4x SATA SSD or 2x SATA SSD + 1x ODD)						
	Boot Drive 1 x NVMe M.2 SSD PCIe 4.0 x4 (500GB, 1TB, 2TB)						
Storage	Add'L NVMe Storage (1 - 6 GPUs) 2 x NVMe M.2 SSD PCIe 4.0 x4 (500GB, 1TB, 2TB)						
	Add'l NVMe Storage (7 GPUs)	1 x NVMe M.2 SSD PCIe 4.0 x4 (500GB, 1TB, 2TB)					
	Add'l SATA Storage (1 - 6 GPUs)	8 x SATA III 2.5" S	8 x SATA III 2.5" SSD (1, 2, 4 or 8TB) 6 x SATA III 2.5" SSD (1, 2, 4 or 8TB)				
	Add'l SATA Storage (7 GPUs)	4 x SATA III 2.5" SSD (1, 2, 4 or 8TB)		2 x SATA III 2.5" SSD (1, 2, 4 or 8TB)			
	Optical Drive (ODD)	N/A		1 x DVD±RW or DVD±RW/Blu-ray			
Power Supply	2 x 1600 Watt Platinum						
	Front I/O						
	Audio						
	4 x USB (Type-A)						
	Rear I/O						
I/O Ports	1 x USB 3.2 Gen 2 (Type-C)						
	2 x USB 3.2 Gen 1						
	2 x 10GbE LAN						
	1 x IPMI LAN						
	CPU & GPU: EK custom liquid cooling, Case: Forced air						
	2 x pumps						
	2 x reservoirs						
Cooling	2 x 120mm x 480mm radiators						
	8 x 120mm fans						
	Quick Disconnect Couplings (QDC)						
	xenowulf Smart Pump/Fan Controller						
Case	EK-C232 Design						
	Dimensions: W x H x D (in)	15.6 x 23.5 x 25					
	Dimensions: W x H x D (cm)	39.6 x 59.2 x 63.5					
Warranty	Standard 1 year from ship date	Standard 1 year from ship date					