

Compute Series X7000-C



The Smallest, Most Powerful, Liquid Cooled Multi-GPU Workstation

With server-level components, up to 4 liquid cooled GPUs, and up to 1.5TB of ECC memory, EK Fluid Works X7000-C packs the performance of a powerful GPU compute server into a desktop workstation about the size of a small subwoofer.

Optimized For:

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

Quick Specs:

- 2nd & 3rd Gen AMD® EPYC™ CPUs
- Up to 4x NVIDIA® A100 GPUs
- 128GB to 2TB ECC Memory
- 128GB to 1.5TB ECC Memory
- 2x 1000W SFX PSUs



Innovation Sets Us Apart



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



UNEXPECTEDLY COMPACT
Performance of a High-End GPU Compute Server on the Desktop

Why Liquid Cooling?

UNPARALLELED COOLING PERFORMANCE

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

LONGER LIFESPAN

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

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.

ENVIRONMENTALLY FRIENDLY

Liquid cooled computing components consume 10%- 15% less energy to produce the same power output as comparable air-cooled components.

Motherboard	ASRock Rack ROMED6-2L2T						
	Chipset	7002/7003					
	Socket	SP3r3					
	PCIe Lanes per GPU	16					
	Multi-Threading	Yes					
CPUs	AMD EPYC	7502P	7642	7702P	7543P	7643	7713P
	Frequency (GHz) Base / Boost	2.5 / 3.35	2.3 / 3.5	2.0 / 3.35	2.8 / 3.7	2.3 / 3.6	2.0 / 3.675
	Cores / Threads	32 / 64	48 / 96	64 / 128	32 / 64	48 / 96	64 / 128
	Cooling	Liquid					
Memory	128GB (4 x 32GB ECC) to 768GB (6 x 128GB ECC)						
	DIMM Sockets	6 x DDR4					
	Speed	2666 / 3200 MHz					
	Error Correcting	ECC					
Expansion Slots	4 x PCIe 4.0 x16						
GPUs	NVIDIA GeForce RTX 3090, A100						
	Max GPUs	4					
	Cooling	Liquid					
Storage	2x NVMe M.2 SSD / 4x SATA SSD						
	Boot Drive	1 x NVMe M.2 SSD PCIe 4.0 x4 (500GB, 1TB, 2TB)					
	Add'l SATA Storage	4 x SATA III 2.5" SSD (1, 2, 4 or 8TB)					
	Optical Drive (ODD)	N/A					
Power Supply	2x 1000 Watt Platinum SFX						
I/O Ports	Front I/O						
	2 x USB (Type-A)						
	Rear I/O						
	1 x USB 3.2 Gen 2 (Type-C)						
	2 x USB 3.2 Gen 1						
	2 x 10GbE LAN						
	2 x 1GbE LAN						
	1 x IPMI LAN						
Cooling	CPU & GPU: EK custom liquid cooling						
	2 x Pumps						
	1 x Reservoir						
	2 x 240mm x 60mm newly designed low fin density radiators						
	8 x 120mm fans (push/pull)						
	Quick Disconnect Couplings (QDC)						
	xenowulf Smart Pump/Fan Controller						
Case	EK/xenowulf custom design						
	Dimensions: W x H x D (in)	14.25 x 16 x 16.25					
	Dimensions: W x H x D (cm)	36.2 x 40.6 x 41.3					
Warranty	Standard 1 year from ship date						