



SILVERSTONE



EK Fluid Works Cascade 4U8G Barebone

Professional Liquid Cooled Rack Mount Case

Experience unparalleled performance and reliability with our cutting-edge rack-mounted liquid-cooled server case. Designed for scalability and durability, it ensures efficient cooling, seamless expansion, and hassle-free maintenance for high-demand workloads.

Optimized for:

- Data Science
- Machine Learning & Deep Learning
- Scientific Computing
- AI LLM, GM, IRM, RM...

Quick Specs:

- Supports Up to 8 GPUs / **GeForce 50-Series Ready**
- Efficient Water-Cooling Technology
- Maximized Performance & Reliability
- Redundant Power Supply
- Chassis Designed by SilverStone
- Future-Proof and Easily Expandable
- Industry-Grade Durability
- Quick and Easy Servicing



8x GPU	4U
5x 2000W PSU	EASY LOOP
50 SERIES READY	AI HPC

Learn more:

Innovation Sets Us Apart



SUPPORTS UP TO 8 GPUS

Designed for top-tier performance, this 4U workstation accommodates up to 8 full-height, full-width liquid-cooled GPUs, including next-generation Nvidia graphics cards. Water cooling allows the server rack to be fitted with twice as many graphics cards as a traditional air-cooled system. Giving you maximum compute in the smallest form factor possible.



REDUNDANT POWER SUPPLY

A failsafe design with a redundant power supply guarantees uninterrupted operation, even under heavy loads



FUTURE-PROOF WITH GEFORCE 50-SERIES GPU SUPPORT

Built to adapt to evolving needs, it supports dual- and single-socket motherboards, high-performance CPUs from Intel®, AMD®, and Ampere®, and the latest NVIDIA GeForce 50-Series GPUs for next-level performance and scalability.

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.

Cascade 4U8G Barebone



Case	SilverStone 4U8G-FF-CASCADE	
	Model No.:	SST-4U8G-FF-CASCADE
	Chassis form factor:	4U
	Motherboard:	SSI-EEB (12.63" x 13") (12.4" x 14")
	Expansion Slot:	Standard PCI Expansion Slots x8
	Front I/O Port:	USB-Type C x 1 USB-A x 2 Power Button Reset Button +Motherboard I/O
	Indicators:	Power LED x 1: Blue HDD Access x 1: Green LAN LED x 2: Green
	Expansion Slot:	435mm (W) x 176mm (H) x 720mm (D) 17.13" (W) x 6.93" (H) x 28.35" (D)
Main Metal Thickness:	1.0~1.2mm	
Cooling	EK Liquid-Cooling Kit	
	Pump:	2x Laing D5
	Radiators:	360 mm
	Tubes:	EK ZMT 10/16
	Fans:	3x 120 mm
	Manifold:	8x GPU, 2x CPU
	GPU Cooling	GPU Block
	CPU Cooling	CPU Block
Power Supply	SilverStone SST-GM2000C-PF	
	Type:	CRPS 4+1
	Output Power:	5x 2000W Platinum
CPU	1 or 2 CPU Supported	
	AMD®	Threadripper® Series EPYC® Series
	Intel®	Xeon® Series
GPU	Up to 8 GPU Supported	
	Nvidia® GeForce® Series / 50-Series Ready Nvidia® Professional AMD® Radeon® Series	

Who Is It For?

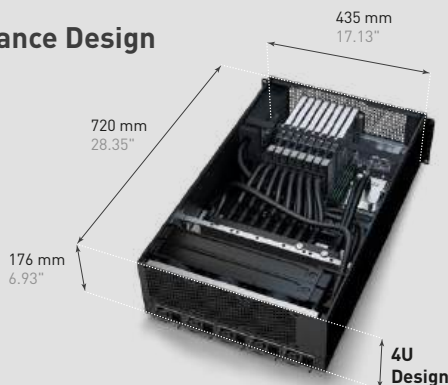
This workstation is purpose-built for demanding applications, including:

- AI and Machine Learning: For training and inference of cutting-edge algorithms.
- High-End 3D Rendering: Perfect for complex animations and visualization projects.
- Scientific Simulations: Handles compute-intensive workloads with ease.
- Cybersecurity & Forensics: Designed for secure, high-performance operations in specialized labs.
- Photogrammetry: For creating high quality 3D models and digital twins



Compact High-Performance Design

Designed to maximize computational performance in minimal space, this 4U rackmount workstation provides unprecedented density for liquid-cooled components. With support for up to 8 full-length GPUs and a compact footprint, it delivers top-tier performance while reducing operational costs.



Collaboration of Industry Leaders

CHASSIS DESIGNED BY SILVERSTONE

Developed in collaboration with SilverStone, the chassis combines innovative design with robust performance. This rack is off-the-shelf ready and tailored for professional-grade workloads.

LIQUID-COOLING BY EK

Engineered by EK, the liquid-cooling system delivers unparalleled thermal efficiency, ensuring optimal performance and extended component lifespan. Featuring precision-engineered blocks, a high-efficiency manifold, and advanced quick-disconnect fittings, it minimizes maintenance complexity while maximizing reliability and cooling capacity.