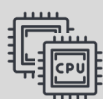


Altos BrainSphere™ R880 F7

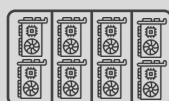
Built for AI Training and HPC
Extreme Performance 8U HGX GPU Server

Powerful Architecture Reinvented for Compute, Storage, and Management



Dual Processor Architecture

Supports dual 6th Gen Intel® Xeon® 6700/6500 Series, up to 350W TDP per CPU



SXM GPU

8 SXM NVIDIA Blackwell B200 GPUs



Large-Capacity Memory

Up to 32 DDR5 DIMM slots, delivering up to 8000 MT/s. Ideal for AI and HPC workloads



High-Speed Storage

Up to 8x 2.5-inch Gen5 NVMe drives
Hot-swappable design
2x M.2 PCIe Gen5 drives



Enterprise-Grade Power & Cooling

6+6 redundant 3000W Titanium PSU
10 system fan + 15 GPU fan



Remote Management & Security

BMC with IPMI / HTML5 KVM,
plus TPM 2.0 & UEFI Secure Boot

Evolved High-Performance AI GPU Server

Next-Generation Server Core for AI & HPC

The Altos BrainSphere™ R880 F7 is engineered to tackle the most demanding AI training, HPC, and large-scale data workloads. Powered by dual Intel® Xeon® 6 processors, high-speed DDR5 memory, and eight NVIDIA B200 SXM GPUs, this advanced system delivers exceptional scalability and performance. The HGX B200 architecture establishes R880 F7 as a premier accelerated x86 platform—purpose-built for generative AI, data analytics, and high-performance computing.

Optimized Thermal, Power, and Manageability

The 8U chassis ensures exceptional thermal stability under full load, featuring optimized airflow design and tool-less fan modules for easy maintenance. Redundant 6+6 Titanium 3000W PSUs deliver reliable, energy-efficient performance for continuous high-density operation. Equipped with the ASPEED® AST2600 BMC, the system enables remote management through IPMI, HTML5 KVM, and SNMP v3, complemented by enhanced security features including TPM 2.0 and UEFI Secure Boot.

Extreme Compute Power for AI and HPC

The NVIDIA HGX B200 platform defines a new era of accelerated computing and generative AI. Powered by NVIDIA Blackwell Tensor Core GPUs with high-speed NVLink interconnect, it delivers exceptional scalability and performance. With up to eight GPUs providing 1.4 TB of memory and 64 TB/s bandwidth, it achieves 15x faster trillion-parameter inference while cutting cost and power by up to 12x.

Flexible Architecture with Scalable Investment Efficiency

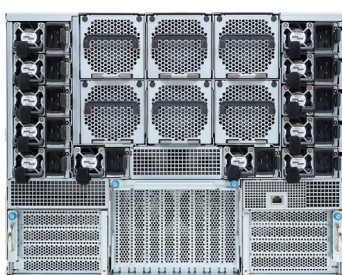
The Altos BrainSphere™ R880 F7 delivers flexible GPU deployment, supporting a wide range of accelerators and easily adapting to evolving AI workloads. With the integration of the Altos aiWorks platform, it further optimizes resource allocation, streamlines AI workflow orchestration, and maximizes the return on infrastructure investment.

Contact your Altos Partner now and accelerate your smart computing journey.

sales@altoscomputing.com

Altos BrainSphere™ R880 F7 Specification

CPU	Dual Intel® Xeon® 6 Processors, TDP up to 350W - Intel® Xeon® 6700-Series Processors - Intel® Xeon® 6500-Series Processors
GPU	NVIDIA HGX B200 with 8 x SXM GPUs
Memory	32 DIMM slots, 8-Channel DDR5 RDIMM/MRDIMM RDIMM Up to 6400 MT/s (1DPC), 5200 MT/s (2DPC)
LAN	Front: 2 x 10Gb/s (Support NCSI function), 1 x 1 Gb Management port Rear: 1 x 1 Gb Management port
TPM	1 x TPM 2.0 header (SPI),
Drive Bay	Front: 8 x 2.5"(Hot-swappable) PCIe Gen5 NVMe Internal: 2 x M.2 (2280/22110), PCIe Gen5
I/O Ports	Front: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x 1 Gb Management LAN port (default) Rear: 1 x 1 Gb Management LAN port
PCIe Expansion Slots	4 x FHHL dual-slot PCIe Gen5 x16 8 x FHHL single-slot PCIe Gen5 x16
Power Supply	6+6 3000W 80 PLUS Titanium redundant power supplies AC Input: 115-240V , C19 power cord.
Cooling	Air cool
Operating Properties	Operating: 10°C to 30°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing) ASPEED® AST2600 BMC
Security and Manageability	TPM 2.0 UEFI Secure SNMP v3
Form factor	8U 447 (W) x 351 (H) x 923 (D) mm
OS	Microsoft® Windows Server 2022, Red Hat Enterprise Linux Server 8.10/9.4/9.5, Ubuntu Server 22.04.x/24.04.x LTS, VMware ESXi 8.0/9.0
EMC / Safety Compliance	FCC, CE
Packaging Content	1 x R880 F7, 2 x CPU heatsinks, 4 x Carriers, 1 x L-shape Rail kit



About Altos Computing Inc.

Altos Computing Inc. (abbr. Altos) is established in 2017, is a subsidiary of Acer Group. Leveraging in-house R&D and collaborations with ODM, IHV, and ISV partners, Altos delivers streamlined and cost-effective integrated solutions. Its product portfolio covers AI servers, AI workstations, and AI resource management platforms.

In an era of rapid innovation, Altos provides leading solutions across diverse domains, including High Performance Computing (HPC), Virtual Desktop Infrastructure (VDI), Cloud Infrastructure, and Software-Defined Storage (SDS). Our customers include government agencies, academic institutions, cloud service providers, data center operators, and enterprises.

In a continuing effort to improve the quality of our products, information in this brochure is subject to change without notice.

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