Altos BrainSphere™ R785 F6

Modular Agility for Future-Ready AI and HPC

Powerful Architecture Reinvented for Compute, Storage, and Management

Dual Processor Architecture

Supports Dual 5th Gen AMD® EPYC® 9005 Series, up to 192 Cores and 500W TDP per CPU

Flexible GPU Card

Up to 8 x NVIDIA RTX PRO 6000 Blackwell Server Edition or H200 NVL GPUs

Large-Capacity Memory

Up to 24 DDR5 DIMM slots, delivering up to 6400 MT/s. Ideal for AI and HPC workloads

High-Speed Storage

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

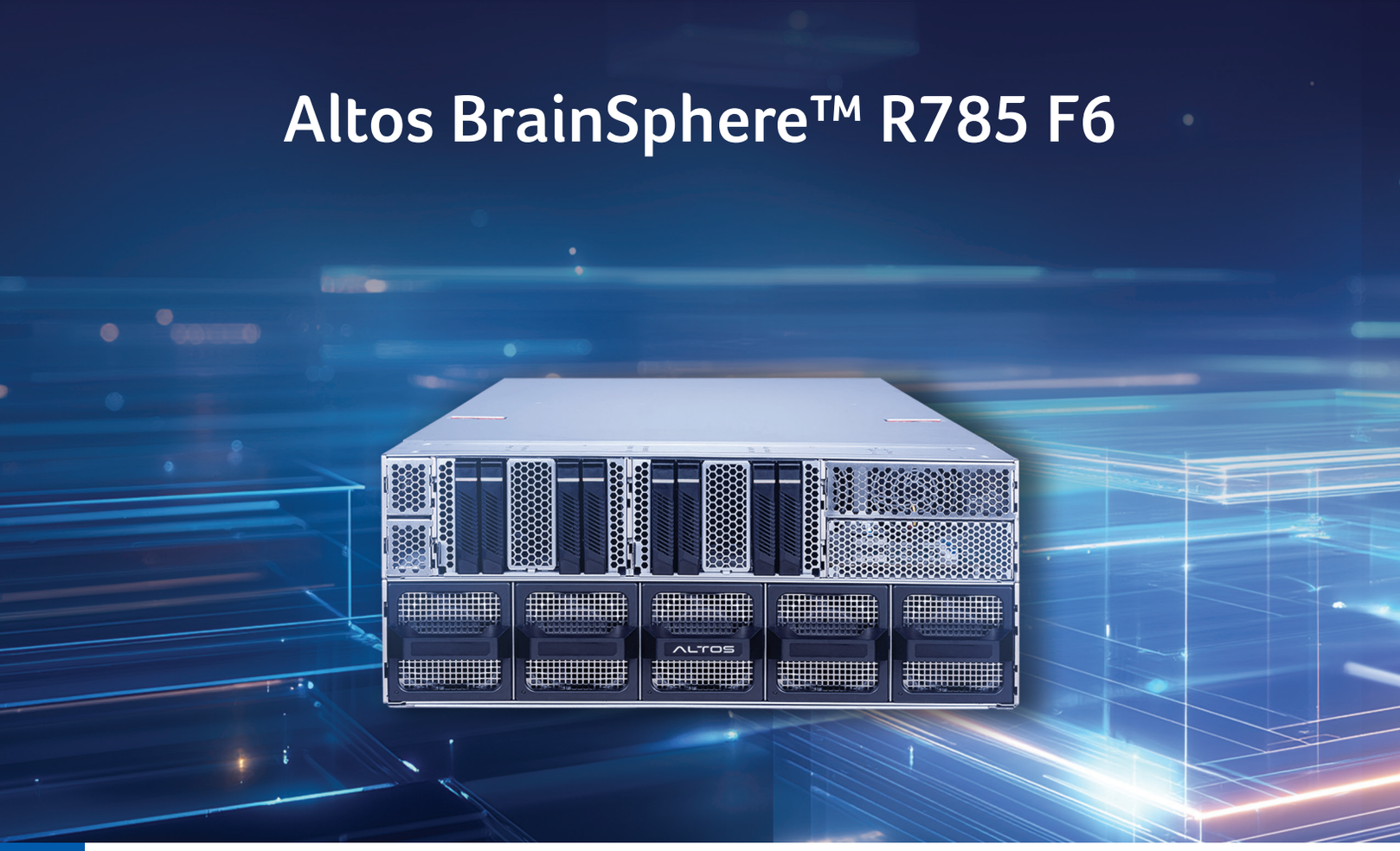
Enterprise-Grade Power & Cooling

3+1 redundant 3200W Titanium PSU
EVAC CPU cooling fan + 10 system fan

Remote Management & Security

BMC Remote Management
TPM 2.0 Platform Security

Altos BrainSphere™ R785 F6



Evolved High-Performance AI GPU Server

Next-Generation Server Core for AI

The Altos BrainSphere™ R785 F6 is engineered to tackle the most demanding AI, LLM training, and Omniverse workloads.

Powered by dual AMD EPYC 9005 processors and up to eight NVIDIA RTX PRO 6000 Blackwell Server Edition or H200 NVL GPUs, this advanced system delivers exceptional scalability and performance, while providing both cost-effective and highly optimized functional configurations.

Optimized Thermal, Power, and Manageability

The 4U chassis ensures exceptional thermal stability under full load, featuring an optimized airflow design and tool-less fan modules for streamlined maintenance.

Redundant 3+1 Titanium 3200W PSUs provide reliable, energy-efficient power delivery for continuous high-density operation.

Equipped with the ASPEED® AST2600 BMC, the system delivers comprehensive remote management capabilities, while TPM 2.0 support helps strengthen platform-level security.

Modular Agility for Future-Ready AI and HPC

Extreme Compute Power for AI and HPC

With the NVIDIA MGX™ platform, the Altos BrainSphere™ R785 F5 offers flexible, multi-purpose resource configurations optimized for generative AI, LLM workloads, and high-performance computing.

The AMD EPYC™ 9005 series provides up to 192 cores, delivering maximum compute density and fully meeting CPU-intensive workload requirements.

Flexible Architecture with Scalable Investment Efficiency

The Altos BrainSphere™ R785 F6 delivers flexible GPU deployment with support for a wide range of accelerators, enabling seamless adaptation to evolving AI workloads. With the optional NVIDIA ConnectX®-8 configuration, the system enables PCIe 6.0 connectivity, delivering substantially increased bandwidth to support next-generation GPUs and high-performance expansion devices. Integrated with the Altos aiWorks platform, the R785 F6 optimizes resource utilization, streamlines AI workflow orchestration, and maximizes infrastructure ROI.

Specification

CPU	Dual AMD EPYC™ Zen 5 Processors, TDP up to 500W - AMD EPYC™ 9005-Series Processors	
GPU	Up to 8 x NVIDIA RTX PROTM 6000 Blackwell Server Edition or H200 NVL GPUs	
Memory	24 DIMM slots, 12-Channel DDR5 RDIMM RDIMM Up to 6400 MT/s	
TPM	1 x TPM 2.0 on board	
Drive Bay	Front: 8 x 2.5"(Hot-swapable) PCIe Gen5 NVMe Internal: 2 x M.2 (2280/22110), PCIe SSD	
I/O Ports	1x USB 3.0, 1 x Mini Display Port, 2 x RJ45, 1 x 1 Gb Management LAN port (default)	
Video	ASPEED® AST2600 - 1 Mini Display Port	
Power Supply	3+1 3200W 80 PLUS Titanium redundant power supplies AC Input: 100-240V , C19 power cord.	
Cooling	Air cool	
Operating Properties	Operating: 10°C to 35°C, 8% to 85% (non-condensing) Non-operating: -30°C to 60°C, 8% to 90% (non-condensing)	
Security and Manageability	ASPEED® AST2600 BMC TPM 2.0	
Form factor	4U 438.5 (W) x 175 (H) x 800 (D) mm	
OS	Microsoft® Windows Server 2025, Microsoft® Windows Server 2022 Red Hat Enterprise Linux Server 8/9 Ubuntu Server 22/24, VMware ESXi 8/9	
EMC / Safety Compliance	FCC, CE	
LAN	2 × 10GbE RJ45 ports (NCSI supported)	**NVIDIA ConnectX®-8 Version (optional)** 8 x 400 GbE QSFP112 ports (via NVIDIA ConnectX®-8)
PCIe Expansion Slots	• 8 × PCIe 5.0 x16 FHFL double-width (via PCIe switch)* • 4 × PCIe 5.0 x16 FHFL single-width (via PCIe switch) • 1 × PCIe 5.0 x16 FHFL single-width (from CPU)	**NVIDIA ConnectX®-8 Version (optional)** • 8 × PCIe 6.0 x16 FHFL double-width (via PCIe switch)* • 1 × PCIe 5.0 x16 FHFL single-width (from CPU)
	*The system supports 8 x RTX PRO™ 6000 Blackwell Server Edition GPUs at 30°C ambient.	
Packaging Content	1 x R785 F6, 2 x CPU heatsinks, 1 x Slide rail Kit, 8 x 12VHPWR power cables, 1 x Power cable for BlueField-3 DPU	

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. Images appearing are only representations of some of the configurations available for this model. Availability may vary depending on region. Altos disclaims any liability for errors and omissions in product descriptions.