

Altos BrainSphere™ R380 F7

Altos BrainSphere™ R380 F7 is a powerful dual-socket 2U system designed to deliver exceptional performance, powered by the latest generation Intel® Xeon® 6700/6500-Series Processors. This system offers high core counts, large memory bandwidth, and advanced I/O expandability, making it ideal for a wide range of applications including, but not limited to, big data analytics, high-performance computing (HPC), virtualization, edge computing, and cloud computing

Rich Computing Power

Powered by Intel® Xeon® 6700/6500-Series Processors, featuring up to 144 cores and 16 channels of DDR5 memory per socket, the Intel® Xeon® 6700/6500-Series deliver an exceptional balance of core/thread density, memory bandwidth, and I/O throughput. This enables highly optimized performance and efficient support for the most demanding and data-intensive workloads.

Excellent Expandability

Altos BrainSphere™ R380 F7 provide 32 of DDR5-6400MT/s DIMM slots, can support maximum Two GPU, total of Twelve 3.5"/ 2.5" drive bays, to perfectly fulfill demands of high-capacity memory and storage.



Specification		
Processor	Processor type	Dual Intel® Xeon® 6700/6500-Series Processors TDP 270 W Support GPU CPU TDP up to 235W
	Number of processors	2
On-board Devices	BMC	AST2600 Video Redirection up to 1920x1200
Memory	Memory Slot	32 DIMM Slots
	Memory type	16-Channel, 6400MHz ECC RDIMM
Expansion Slots	PCIe / PCI	4 x PCI-E 5.0 x16 slots and 1x PCI-E 5.0 x 8 slots Maximum support Two H100HVL, L40s, 6000 Ada
	OCP 3.0	1 x PCI-E 5.0 x16 OCP 3.0 slot and 1 x PCI-E 5.0 x 8 OCP 3.0 slot
	M.2	2 x M.2 2280 slots (Support NVMe)
I/O Port	Front I/O Port	1 x VGA Port 1 x Power Button 1 x USB 3.2 Gen1 Type-A port 1 x USB 2.0 port Type-A Port
	Rear I/O Port	1 x UID Button 1 x Reset Button 1 x Power Button 1 x Reset Button 2 x USB 3.2 Gen1 Type-A Ports 1 x RJ45 Port (Dedicated BMC LAN Port) 1 x Mini Display Port
Network		Options OCP and PCI-E Lan card to support Network
Storage Bay	Front 3.5"/2.5"	Onboard (12 hybrid hot-swappable bays, No SAS support): 4-bay 3.5"/2.5" SATA support, full 12-bay 2.5" NVMe support With Optional HBA / RAID Controller: 12 x 3.5"/2.5" SATA/SAS hot-swappable bays
	Rear 2.5"	2 x 2.5" SATA hot-swappable bays
Management & Security	Management	IPMI2.0, KVM with dedicated LAN
	Security	TPM 2.0 onboard
Power Supply		2 x 2400W 80Plus Titanium CRPS Redundant power supply
Form factor	Dimensions	2U 770(D) x 438 (W) x 87(H) mm
OS support	Windows	Microsoft® Windows Server 2025 /2022
	Linux	REHL10, Ubuntu 24.04 64bit Server
OS Certification	Windows	Microsoft® Windows Server 2025
	Linux	ESXi 8.0 U3 (vSAN 8.0 Update 3), ESXi 8.0 U2 (vSAN 8.0 Update 2), ESXi 8.0 U1 (vSAN 8.0 Update 1) REHL10
EMC/Safety	EMC/Safety	CE, FCC, BSMI, CB

About Altos

Altos Computing Inc. (abbr. Altos) was established in 2017 as a subsidiary of Acer Inc. Built on agile R&D capabilities and a comprehensive partner ecosystem, Altos integrates ODM, IHV, and ISV technologies to deliver end-to-end solutions covering AI servers, workstations, thin clients, interactive displays, networking, and storage devices.

In the AI-driven era, Altos focuses on artificial intelligence and cloud solutions, high-performance computing (HPC), virtual desktop infrastructure (VDI/IDV), and hyper-converged infrastructure (HCI), helping enterprises accelerate digital transformation and innovation. Its customers include AI and deep learning developers, enterprises, public sector organizations, academic and research institutions, financial services, cloud service providers, and data center operators. Altos is committed to driving the future of intelligent computing.

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.

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