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 350
	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, 1x UID Button
		1 x Power Button, 1x Reset 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 Power Button, 1x 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"	**SAS card is required to enable SAS drives.**
		4 x 3.5" /2.5" SATA and 12 x2.5" NVMe hot-swappable bays (on-board)
		12 x 3.5" /2.5" SATA/SAS hot-swappable bays (option HBA or Raid Card)
	Rear 2.5"	2 x 2.5" SATA hot-swappable bays
Management & Security	Management	IPMI2.0, KVM with dedicated LAN
	Security	1 TPM Header; Optional TPM 2.0 module
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	REHL 9.0 /8.5, Ubuntu 22.04 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)
EMC/Safety	EMC/Safety	CE FCC BSMI CB

About Altos

Altos Computing Inc. (abbr. Altos) is established in 2017 and it is a subsidiary of Acer Inc. The business model of Altos is to provide the best streamlined and cost-effective integrated solutions thru in-house R&D working with ODM/IHV/ISV on servers, workstations, thin client, network and storage. In the era of demanding speed, Altos provides leading solution included, but not limited to High Performance Computing, Virtual Desktop Infrastructure, Cloud Infrastructure and Software Defined Storage, etc.

Altos provides solutions and services to government, academia, cloud service providers, datacenter operators and enterprises.