

Altos BrainSphere™ R370 F7

Altos BrainSphere™ R370 F7 is a powerful Dual socket 2U system designed to deliver outstanding performance, featuring the 6th generation Intel® Xeon® Scalable series processors. The system is designed to meet a variety of application requirements, including big data analytics, high-performance computing, virtualization, edge computing, and cloud computing.

Rich Computing Power

Powered by 6th Gen Intel® Xeon® Scalable processors, with 8 channels of memory per socket, the 6th Gen Intel® Xeon® Scalable processors strikes the perfect balance of threads/cores, memory, and raw IO, to deliver most optimized performance and support most demanding workloads.

Excellent Expandability

In addition, Altos BrainSphere™ R370 F7 provides 32 DDR5- DIMM slots, 2x FHHL Dual Slot PCIe Gen5 x16 Slots , 2x FHHL Single Slot PCIe Gen5 x16 Slots , 2x OCP 3.0 Gen5 x16 Slots and 2x M.2 Slots, total of 12x 3.5” or 2.5” Gen5 NVMe/SATA/SAS-4 drive bays on Front and 2x 2.5” SATA/SAS-4 drive bays on Rear, to perfectly fulfill demands of high-capacity memory and storage.

Robust Availability

The BrainSphere™ R370 F7 has dual 2000W PSU, 80 PLUS Titanium, to support 1+1 redundancy.



CPU	Processor type	• 6th Gen Intel® Xeon® Scalable Processors (TDP up to 350W)	
	Number of processors	2	
On-board Devices	Chipset	System on Chip	
	IPMI	ASPEED AST2600	
	Graphics	ASPEED AST2600 BMC	
	Network controller	<ul style="list-style-type: none"> • 2 x 1Gb/s LAN ports (1 x Intel® I350-AM2) - supports NCSI function • 1 x 10/100/1000 Mbps Management LAN 	
Memory	Memory slot	32 DIMM slots (16 + 16)	
	Memory type	8-Channel DDR5 RDIMM / MR DIMM, 32 x DIMM slots RDIMM: Up to 6400 MT/s (1DPC), 5200 MT/s (2DPC) MR DIMM: Up to 8000 MT/s (*MR DIMMs are only supported with Intel Xeon 6 Processors with P-cores and in a 1DPC configuration.)	
Expansion slots	PCIe	2 x FHHL Dual-slot PCIe Gen5 x16 slots 2 x FHHL Single-slot PCIe Gen5 x16 slots	
	OCP 3.0	2 x OCP 3.0 Gen5 x16 slots (supports NCSI function)	
	M.2	2 x M.2 slots (M-key, PCIe Gen5 x4, support 2280/22110 cards)	
I/O ports	Front I/O ports	• 2 x USB 3.2 Gen1 (Type-A)	
	Rear I/O ports	<ul style="list-style-type: none"> • 2 x USB 3.2 Gen1 (Type-A) • 1 x Mini-DP 	<ul style="list-style-type: none"> • 2 x RJ45, 1 x MLAN • 1 x MLAN
Management & Security	Server Management	• IPMI2.0, KVM with dedicated LAN	
	System Security	<ul style="list-style-type: none"> • 1 x TPM header with SPI interface 	<ul style="list-style-type: none"> • 1 x PProT module connector (M.2 M-key)
Drive Bays	LFF SKU	<ul style="list-style-type: none"> • Front: 12 x 3.5"/2.5" Gen5 NVMe/SATA/SAS-4* hot-swappable bays • Rear: 2 x 2.5" SATA/SAS-4* hot-swappable bays 	
		*Storage card is required to support SATA and SAS drives.	
Power supply	LFF SKU	• 2 x 2000W Titanium redundant power supply	
Form factor	Form factor	2U, Rackmount	
Tested OS		<ul style="list-style-type: none"> • Windows Server 2022 / 2025 • Red Hat® Enterprise Linux® 	

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/OEM/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.

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