Altos BrainSphere™ R380 F6

Altos BrainSphere™ R380 F6 is a powerful Dual-socket 2U system designed to deliver outstanding performance, featuring the fourth generation Intel® Xeon® Scalable series processors. The system is designed to meet a variety of application requirements, including but not limited to big data analytics, high-performance computing, virtualization, edge computing, and cloud computing.

Rich Computing Power

Powered by 4th Gen Intel® Xeon® Scalable processors, with 60 cores and 8 channels of memory per socket, the 4th 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

Altos BrainSphere™ R380 F6 provide 32 of DDR5-4800 DIMM slots , 6 PCIe slots can support maximum three GPU , total of Twelve 3.5”/ 2.5” drive bays, to perfectly fulfill demands of high-capacity memory and storage.

Robust and Reliable Computing

The BrainSphere™ R380 F6 has dual 1,200W PSU, 80 PLUS Titanium, to support 1+1 redundancy. ◦

Specification

Processor	Processor type	Intel 4th Gen Intel® Xeon® Scalable processors, TDP up to 350W
	Number of processors	2
On-board Devices	Chipset	Intel® C741 chipset
Memory	Memory Slot	32 DIMM Slots
	Memory type	8-Channel, 4800MHz ECC RDIMM
Expansion Slots	PCIe / PCI	2 x PCI-E 5.0 x16 slots and 4x PCI-E 5.0 x 8 slots
	PCIe / PCI (GPU)	3 x PCI-E 5.0 x16 slots and 2 x PCI-E 5.0 x 8 slots (options)
		Maximum support three H100, L40s, L40, A100
	OCP 3.0	1 x OCP 3.0 x16 slots
	M.2	2 x M.2 2280/22110 slots (Support NVMe SSD or SATA3)
I/O Port	Rear I/O Port	2 x USB 3.0 Type-A Ports
		1 x RJ45 Port (Dedicated BMC LAN Port)
		1 x VGA Port
Network		Default not have on-board NIC, need optional OCP or PCI-E Lan card to support
	OCP 3.0	2 x 1GbE RJ45 Ports (options)
		2 x 10GbE RJ45 Ports (options)
		2 x 1GbE RJ45 Ports and 2x 10GbE SFP+ Ports (options)
		2 x 25GbE SFP28 Ports (options)
		2 x 100GbE SFP28 Ports (options)
	PCIe	2 x 1GbE RJ45 Ports (options)
		4 x 1GbE RJ45 Ports (options)
		2 x 10GbE RJ45 Ports (options)
		2 x 10GbE SFP+ Ports (options)
		4 x 10GbE SFP+ Ports (options)
Drive Bays	3.5”/2.5”	SAS card is required to enable the SAS drives.
		8 x 3.5” /2.5” SATA hot-swappable bays
		12 x 3.5” /2.5”SATA/SAS hot-swappable bays (option HBA or Raid Card)
		12x 2.5” NVMe hot-swappable bays (option NVMe cable)
Management & Security	Management	IPMI2.0, KVM with dedicated LAN
		Smart Console remote monitoring
	Security	1 TPM Header; Optional TPM 2.0 module
Power Supply		2 x 1200W 80Plus Titanium CRPS Redundant power supply
Form factor	Dimensions	2U 803(D) x 437 (W) x 88.9(H) mm
OS support	Windows	Microsoft® Windows Server 2022 /2019
	Linux	REHL 9.0 /8.5, Ubuntu 22.04 64bit Server
Certification		EnergyStar 3.0
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.

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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