

Altos BrainSphere™ R380 F5

The BrainSphere™ R380 F5, equipped dual Dual 3rd Gen Intel® Xeon® Scalable processors up to 270W TDP series processors, is a robust two-socket 2U system that is ideal for almost any type of applications. This dynamic and balanced system can function as a database server for Big Data Analytics, a computing node for your HPC (High-Performance Computing) environments or used for virtualization purposes in your cloud infrastructure. Extremely powerful and highly efficient, this system functions as the core for your most demanding data-center needs..

Rich Computing Power

Powered by 3rd Gen Intel® Xeon® Scalable processors, with 40 cores and 8 channels of memory per socket, the 3rd 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 additional, Altos BrainSphere™ R380 F5 provides 32 of DDR4-3200 DIMM slots, 7 PCIe slots and 1 internal PCIe slots, total of twenty-four 2.5" drive bays, to perfectly fulfill demands of high-capacity memory and storage.

Robust Availability

The BrainSphere™ R380 F5 has dual 1,600W PSU, 80 PLUS Titanium, to support 1+1 redundancy.



Specification		
CPU	Processor type	3rd Gen Intel® Xeon Scalable Processors TDP 270W
	Number of processors	2
On-board Devices	Chipset	Intel® C741 chipset
	IPMI	AST 2600 Video Redirection up to 1920x1200
Memory	Memory slot	32 DIMM slots
	Memory type	8-Channel, 3200/2933/2666 ECC DDR4 RDIMM / LRDIMM
Expansion slots	PCIe	1x PCI-E 4.0 x16 (FH)
		5x PCI-E 4.0 x8 (FH) (PCIe4.0x16 options available)
		(Optional RSC-W2-66G4 enables PCI-E x16 in slots 5, 7. Slots 6,8 will be disabled.) can support 2 x double-width GPUs (option)
		1x PCI-E 4.0 x16 (LP)
		1x PCI-E 4.0 x8 (Internal LP)
I/O Ports	Rear I/O ports	1 x RJ45 management LAN port
	Rear I/O ports	1 x VGA port
		1 x COM port 2 USB 3.0 ports
Network		Networking Options(Dual 10GbE SFP+, Dual 10GBaseT, or No NIC)
		One 10/100/1000 management LAN port
Drive Bays	LFF SKU	12 x 3.5" NVMe/SAS/SATA(SAS/NVMe support requires additional parts) hot-swappable bays for HDD/SSD
	SFF SKU	22xNVMe(option)/SATA hot-swap 2.5" drive bays +2x SATA Hot-Swap 2.5" driver bay
	Raid	Intel PCH 621A;RAID0/1/5/10 support
Management & Security	Server Management	IPMI2.0, KVM with dedicated LAN
	System Security	1 TPM Header ; Optional TPM 2.0 module
Power supply	LFF SKU	2 x 1200W 80Plus Titanium CRPS Redundant power supply (LFF)
	SFF SKU	2 x 1600 80Plus Titanium CRPS Redundant power supply (SFF)
Form factor	Form factor	2U, Rackmount
	Dimensions (D x W x H)	737.9 x 437 x 89 mm approximately
Tested OS	Windows	Microsoft® Windows Server 2022 /2019
	Linux	REHL 8.0, Ubuntu 22.04 64bit Server
OS Certification	Windows	Microsoft® Windows Server 2022 /2019
	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)
System Certification		EnergyStar 3.0
Regulatory Compliance	EMC	CE FCC BSMI
	Safety	CB
<small>About Altos</small> 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 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.		