

Altos BrainSphere™ R3-8F6

Optimized Rack Performance for Modern Data Centers



CPU
350W



GPU
300W



Memory
8TB



Storage
92TB



Form Factor
2U



Altos BrainSphere™ R3-8F6 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 5th/ 4th Gen Intel® Xeon® Scalable processors, with 60 cores and 8 channels of memory per socket, the 5th/ 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™ R3-8F6 provide 32 of DDR5-4800 DIMM slots , 6 PCIe slots can support maximum Four GPU , total of Twelve 3.5"/ 2.5" drive bays, to perfectly fulfill demands of high-capacity memory and storage.

Robust and Reliable Computing

Altos BrainSphere™ R3-8F6 has dual 1,200W PSU, 80 PLUS Titanium, to support 1+1 redundancy.

Specification

Processor	Processor type Number of processors	Intel 5 th / 4 th Gen Intel® Xeon® Scalable processors, TDP up to 350W 2
On-board Devices	Chipset BMC	Intel® C741 chipset AST2600 Video Redirection up to 1920x1200
Memory	Memory Slot Memory type	32 DIMM Slots 8-Channel, 5600/4800MHz ECC RDIMM
Expansion Slots	PCIe / PCI PCIe / PCI (GPU) OCP 3.0 M.2	2 x PCI-E 5.0 x16 slots and 4x PCI-E 5.0 x 8 slots 4 x PCI-E 5.0 x16 slots Maximum support FourH100, L40s, L40, A100 1 x OCP 3.0 x16 slots 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	OCP 3.0 PCIe	Default not have on-board NIC, need optional OCP or PCI-E Lan card to support 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) 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 Security	1 TPM Header; Optional TPM 2.0 module IPMI2.0, KVM with dedicated LAN
Power Supply		2 x 1200W 80Plus Titanium CRPS Redundant power supply 2 x 2000W 80Plus Titanium CRPS Redundant power supply (Options)
Form factor	Dimensions	2U 803(D) x 437 (W) x 88.9(H) mm
OS support	Windows Linux	Microsoft® Windows Server 2022 /2019 REHL 9.0 /8.5, Ubuntu 22.04 64bit Server
OS Certification	Windows Linux	Microsoft® Windows Server 2022 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)
Certification		EnergyStar 4.0
EMC/Safety	EMC/Safety	CE, FCC, BSMI, CB

About Altos Computing Inc.

Altos Computing Inc. (abbr. Altos) is established in 2017, is a subsidiary of Acer Group. Leveraging in-house R&D and collaborations with ODM, IHV, and ISV partners, Altos delivers streamlined and cost-effective integrated solutions. Its product portfolio covers AI servers, AI workstations, and AI resource management platforms. In an era of rapid innovation, Altos provides leading solutions across diverse domains, including High Performance Computing (HPC), Virtual Desktop Infrastructure (VDI), Cloud Infrastructure, and Software-Defined Storage (SDS). Our customers include government agencies, academic institutions, cloud service providers, data center operators, and enterprises. 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. © 2026. All rights reserved. Altos and the Altos logo are registered trademarks of Altos Computing, Inc. Other trademarks, registered trademarks and/or service marks, indicated or otherwise the properties of their respective owners.