Altos BrainSphere^{TM} R385 F5

The Altos BrainSphere^{TM} R385 F5, equipped dual AMD EPYC™ 7003 and 7002 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 AMD EPYC™ 7003 and 7002 series processor, with 64 cores and 8 channels of memory per socket, the Dual AMD EPYC™ processor 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^{TM} R385 F5 provides 32 of DDR4 DIMM slots, up to 8 PCIe slots, and up to 26 2.5" drive bays, to perfectly fulfill demands of high-capacity memory and storage.

Robust Availability
The Altos BrainSphere^{TM} R385 F5 has dual 80 PLUS Platinum power supplies to support 1+1 redundancy. Four hot- swappable system fans, to support high system availability.

Accelerate AI development
With Altos BrainSphere^{TM} AI Development Platform API service agent, it integrates system, GPU and AI Deep Learning container management to fast build and deploy AI development environments.

CPU	Processor type	• AMD EPYC™ 7003 & 7002 series processor family
		• Up to 64-core, 128 threads per processor ; TDP up to 280W
	Number of processors	2
On-board Devices	Chipset	System on Chip
	IPMI	ASPEED AST2500
	Graphics	ASPEED AST2500 BMC
	Network controller	• Dual 1GbE LAN ports with Intel® I350-AM2
		• One 10/100/1000 management LAN port
Memory	Memory slot	32 DIMM slots
	Memory type	8-Channel, DDR4 RDIMM / LRDIMM
Expansion slots	PCIe	• 2 x PCIe x16 slot (Gen4 x16 or x8), Full height half-length
		• 2 x PCIe x8 slots (Gen4 x0 or x8), Full height half-length
		• 2 x PCIe x8 slots (Gen4 x8), Full height half-length (one PCIe x8 slots will be occupied to support 2 x U.2 ports for 24x2.5" SKU)
		• 1 x PCIe x8 slots (Gen4 x0 or x8), Low profile half-length
		• 1 x PCIe x16 slot (Gen4 x16 or x8), Low profile half-length
		• 2 x OCP mezzanine slots (Type 1, P2, P3, P4, K2, K3)
	M.2	1 x M.2 slot (M-key, w/PCIe Gen 3 x4, supports 2242 / 2260 / 2280 cards)
I/O ports	Front I/O ports	• 2 x USB 3.0 ports
	Rear I/O ports	• 1 x VGA port • 2 x USB 3.0 ports • 1 x COM port (RJ45 Type) • 2 x RJ45 LAN ports • 1 x RJ45 management LAN port
Management & Security	Server Management	• IPMI2.0, KVM with dedicated LAN • Altos Smart Server Manager • Smart Console remote monitoring
	System Security	• 1 x TPM Header ; Optional TPM 2.0 module
Software/Utility		Altos BrainSphere™ AI Development Platform API
Drive Bays	12 x 3.5"and GPU SKU	• Front side: 12 x 3.5" SAS/SATA hot-swappable bays for HDD/SSD
	24 x 2.5" U.2 SKU	• Front side: 24 x 2.5" U.2/SAS/SATA hot-swappable bays for HDD/SSD
	24 x 2.5" SKU	• Front side: 24 x 2.5" SAS/SATA hot-swappable bays for HDD/SSD (Default configuration supports: 0 x SAS/SATA drives) • Rear side: 2 x 2.5" SATA/SAS swappable HDD/SSD bays
Power supply	12 x 3.5" SKU	• 2 x 1200W redundant power supply, 80 PLUS Platinum
	24 x 2.5" SKU	• 2 x 1600W redundant power supply, 80 PLUS Platinum
	GPU SKU	• 2 x 2000W redundant power supply, 80 PLUS Platinum
Form factor	Form factor	2U, Rackmount
	Dimensions (D x W x H)	710 x 438 x 87 mm approximately
Tested OS		• Window Server 2022 and 2019 • VMware ESXI 6.7 • Red Hat® Enterprise Linux® 7 • VMware vSAN ReadyNode™
Regulatory Compliance	EMC	CE FCC BSMI
	Safety	CB MET BSMI

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.

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