# Altos BrainSphere<sup>™</sup> R385 F4

Altos BrainSphere<sup>™</sup> R385 F4, equipped dual AMD EPYC<sup>™</sup> 7002 and 7001 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<sup>™</sup> 7002 and 7001 series processor, with 64 cores and 8 channels of memory per socket, the Dual AMD EPYC<sup>™</sup> 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<sup>TM</sup> R385 F4 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**

Altos BrainSphere<sup>TM</sup> R385 F4 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<sup>TM</sup> AI Development Platform API service agent, it integrates system, GPU and AI Deep Learning container management to fast build and deploy AI development environments.

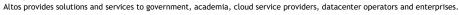
CPU	Processor type	<ul> <li>AMD EPYC™ 7002 and 7001 series processor</li> </ul>
		• Up to 64-core, 128 threads per processor; TDP up to 200W
	Number of processors	2
On-board Devices	Chipset	System on Chip
	IPMI	ASPEED AST2500
	Graphics	ASPEED AST2500 BMC
	Network controller	<ul> <li>Dual 1GbE LAN ports with Intel® I350-AM2</li> </ul>
		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 (Gen3 x16 or x8), Full height half-length
		<ul> <li>2 x PCIe x8 slots (Gen3 x0 or x8), Full height half-length</li> </ul>
		• 2 x PCIe x8 slots (Gen3 x8), Full height half-length (one PCIe x8
		slots will be occupied to support 2 x U.2 ports for 24x2.5" SKU)
		<ul> <li>1 x PCIe x8 slots (Gen3 x0 or x8), Low profile half-length</li> </ul>
		<ul> <li>1 x PCIe x16 slot (Gen3 x16 or x8), Low profile half-length</li> </ul>
		• 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
		• 1 x COM port (RJ45 Type) • 2 x RJ45 LAN ports
		• 1 x RJ45 management LAN port
Management &	Server Management	<ul> <li>IPMI 2.0, KVM with dedicated LAN</li> </ul>
Security		<ul> <li>Altos Smart Server Manager</li> </ul>
		<ul> <li>Smart Console remote monitoring</li> </ul>
	System Security	• 1 x TPM Header ; Optional TPM 2.0 module (LPC Interface)
Software/Utility		Altos BrainSphere™ AI Development Platform API
Drive Bays	12 x 3.5" SKU	<ul> <li>Front side: 12 x 3.5"/2.5" SAS/SATA hot-swappable bays for HDD/SSD</li> </ul>
	24 x 2.5" SKU	<ul> <li>Front side: 6 x 2.5" U.2, 18 x 2.5" SAS/SATA hot-swappable bays for HDD/SSD</li> </ul>
		• Rear side: 2 x 2.5" SATA/SAS swappable HDD/SSD bays
Power supply	12 x 3.5" SKU	• 2 x 2000W redundant power supply, 80 PLUS Platinum
	24 x 2.5" SKU	• 2 x 1200W 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 2019, 2016     VMware ESXI 6.7 Update 3
		Red Hat® Enterprise Linux® 7
Regulatory	EMC	CE FCC BSMI
Compliance	Safety	CB MET BSMI

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.

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.

#### 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.





 $<sup>\</sup>ensuremath{\text{@}}$  2019. All rights reserved.