# Altos BrainSphere™ R185 F5

Altos BrainSphere R185 F5, equipped with single AMD EPYC 7003/7002 series processor, is a robust single 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 7003/7002 series CPUs (Rome) with the latest 7nm advanced process technology, this CPU series can support up to 64 cores and 8 channels of RDIMM/LRDIMM memory per socket, the 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**

Altos BrainSphere R185 F5 is equipped up to 16 DIMM slots to support up to 2TB DDR4-3200 total memory size, up to 6 latest PCIe Gen4.0 with 2x speed comparing with its previous generation and flexible expandable storage options from 12bay LFF to 26bay SFF HDD trays



### **Robust Availability**

Altos BrainSphere R185 F5 has dual 800W PSU 80Plus Platinum for 1+1 redundancy, four hot-swappable system for high availability.



## Accelerate AI development

With Altos BrainSphere™ AI Development

Platform API service agent, it integrates system and AI Deep Learning container management to fast build and deploy AI development environments

СРИ	Processor type	AMD EPYC <sup>TM</sup> 7002 and 7001 series
		<ul> <li>Up to 64-core, 128 threads per processor; TDP up to 240W</li> </ul>
	Number of processors	1
On-board Devices	Chipset	System on Chip
	IPMI	ASPEED AST2500 (2D Controller)
	Graphics	ASPEED AST2500 BMC (2D Controller)
	Network controller	<ul> <li>Dual 1GbE LAN ports with Intel® I350-AM2</li> </ul>
		One 10/100/1000 management LAN port
Memory	Memory Slot	16 DIMM slots
	Memory Type	Up to 2TB (16 x 128GB) DDR4-3200/2933MHz ECC
	Memory Channel	RDIMM/LRDIMM
		8
Expansion slots	PCle	<ul> <li>3 x PCIe Gen4 x16 (in x16 slots)</li> </ul>
		<ul> <li>1 x PCIe Gen4 x8 (in x16 slot)</li> </ul>
		<ul> <li>1 x PCIe Gen3 x16 or x8 (in x16 slot)</li> </ul>
		<ul> <li>1 x PCIe Gen3 x8 or x0 (in x8 slot)</li> </ul>
		<ul> <li>1 x OCP 2.0 Mezzanine Slot with PCIe Gen3 x16</li> </ul>
		(support Type1, P1, P2, P3, P4, Type 2 P5 with NCSI)
	M.2	2 x M.2 2280/2260/2242 slot (M-key, w/PCIe 3.0 x4)
I/O ports	Front I/O ports	• 2 x USB 3.0
	Rear I/O ports	• 2 x RJ45 Ethernet LAN ports • 3 x USB 3.0
	·	• 1 x RJ45 Dedicated IPMI LAN • 1 x VGA port
		port • 1 x COM port
Management &	Management	IPMI 2.0, KVM with dedicated LAN
Security	-	Smart Console remote monitoring
		Altos Smart Server Manager
	TPM	1 TPM with SPI interface (optional for TPM module)
System Fan		4 x 80x80x38mm 16300rpm
Drive Bays	12 x 3.5" SKU	12 x 3.5"/2.5" hot-swappable bays SAS/SATA HDD/SSD + 2 x
		2.5" bay SAS/SATA HDD/SSD (Rear)
	24 x 2.5" SKU	24 x 2.5" bay SAS/SATA HDD/SSD (Front) + 2 x 2.5" bay
		SAS/SATA HDD/SSD (Rear)
Power Supply		2 x 800W redundant power supply, 80 PLUS Platinum
System Cooling		Passive Heat-Sink with Air-duct
		• 4 x 80x80x38mm 16300rpm
Form Factor	Form factor	2U Rack
	Dimension (D $\times$ W $\times$ H)	438 x 87.5 x 660 (mm)
Software		Altos BrainSphere™ AI Development Platform API
OS		Microsoft® Windows Server® 2022 and 2019
		<ul> <li>Red Hat® Enterprise Linux® 8.0 and 7.6</li> </ul>
Certification	EMI	CE FCC BSMI
	Safety	CB MET BSMI
Warranty		3 years

About Attosing 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 ងងែនដើម្បីនេះ ការបាល់ នេះ នេះ បានប្រជាពល់ នេះ នេះ បានបន្ទេច នេះ បានប្រជាពល់ នេះ នេះ បានប្រជាពល់ នេះ នេះ បានប្រជាពល់ នេះ នេះ បានបន្ទេច នេះ បានបានបន្ទេច នេះ បានបន្ទេច នេះ បានបន្តិ នេះ បានបន្ទេច នេះ បានបន្តិ នេះ បានបន្ទេច នេះ បានបន្តិ នេះ បានបន្ workstations shift religible religion and storage. In the era of demanding speed, Altos provides leading solution included, but actobismikethio Aliab RegistrearegasComentiaanNinumb Packtor Configuring. Une. Glaud Industriantly registes et water Packtor Configuring. Storage, etc.

Altos provides solutions and services to government, academia, cloud service providers, datacenter operators and enterprises.