

Altos BrainSphere™ R185 F5

Altos BrainSphere R185 F5, equipped with single AMD EPYC 7001/7002 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 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



CPU	Processor type	<ul style="list-style-type: none"> • AMD EPYC™ 7002 and 7001 series • Up to 64-core, 128 threads per processor; TDP up to 240W 		
	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 style="list-style-type: none"> • Dual 1GbE LAN ports with Intel® I350-AM2 • 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 RDIMM/LRDIMM		
	Memory Channel	8		
Expansion slots	PCIe	<ul style="list-style-type: none"> • 3 x PCIe Gen4 x16 (in x16 slots) • 1 x PCIe Gen4 x8 (in x16 slot) • 1 x PCIe Gen3 x16 or x8 (in x16 slot) • 1 x PCIe Gen3 x8 or x0 (in x8 slot) • 1 x OCP 2.0 Mezzanine Slot with PCIe Gen3 x16 (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	<ul style="list-style-type: none"> • 2 x USB 3.0 		
	Rear I/O ports	<ul style="list-style-type: none"> • 2 x RJ45 Ethernet LAN ports • 1 x RJ45 Dedicated IPMI LAN port 	<ul style="list-style-type: none"> • 3 x USB 3.0 • 1 x VGA port • 1 x COM port 	
Management & Security	Management	<ul style="list-style-type: none"> • IPMI 2.0, KVM with dedicated LAN • 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		
	26 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		<ul style="list-style-type: none"> • Passive Heat-Sink with Air-duct • 4 x 80x80x38mm 16300rpm 		
Form Factor	Form factor	2U Rack		
	Dimension (D x W x H)	438 x 87.5 x 660 (mm)		
Software		Altos BrainSphere™ AI Development Platform API		
OS		<ul style="list-style-type: none"> • Microsoft® Windows Server® 2019 / 2016 • Red Hat® Enterprise Linux® 8.0 and 7.6 		
Certification	EMI	CE	FCC	BSMI
	Safety	CB	MET	BSMI
Warranty		3 years		

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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.

