

# Altos BrainSphere™ R365 F5

The BrainSphere™ R365 F5, equipped dual AMD EPYC™ 7003 and 7002 series processors, is a robust two-socket 1U 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 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 addition, Altos BrainSphere™ R365 F5 provides 32 of DDR4-3200 DIMM slots, 3 PCIe slots, and a total of ten 2.5” drive bays, to perfectly fulfill demands of high-capacity memory and storage.

## Robust Availability

The BrainSphere™ R365 F4 has dual 1,200W PSU, 80 PLUS Platinum, to support 1+1 redundancy.



CPU	Processor type	<ul style="list-style-type: none"> <li>• AMD EPYC™ 7003 and 7002 series processor</li> <li>• Up to 64-core, 128 threads per processor ; TDP up to 200W</li> </ul>		
	Number of processors	2		
On-board Devices	Chipset	System on Chip		
	IPMI	ASPEED AST2500		
	Graphics	ASPEED AST2500 BMC		
	Network controller	<ul style="list-style-type: none"> <li>• Dual 1GbE LAN ports with Intel® I350-AM2</li> <li>• One 10/100/1000 management LAN port</li> </ul>		
Memory	Memory slot	32 DIMM slots		
	Memory type	8-Channel, DDR4 RDIMM / LRDIMM		
Expansion slots	PCIe	<ul style="list-style-type: none"> <li>• 1 x PCIe x16 slots (Gen4 x16), Low profile half-length</li> <li>• 1 x PCIe x16 slot (Gen4 x16), Low profile half-length</li> <li>• 1 x OCP3.0 slot(Gen4 x16)</li> <li>• 1 x OCP2.0 slot(Gen3 x8)</li> </ul>		
	M.2	1 M.2 slot (M-key, w/PCIe Gen 3 x4, supports 2242 / 2260 / 2280 cards)		
I/O ports	Front I/O ports	<ul style="list-style-type: none"> <li>• 2 x USB 3.0 ports</li> </ul>		
	Rear I/O ports	<ul style="list-style-type: none"> <li>• 1 x VGA port</li> <li>• 1 x COM port (RJ45 Type)</li> <li>• 1 x RJ45 management LAN port</li> </ul>	<ul style="list-style-type: none"> <li>• 2 USB 3.0 ports</li> <li>• 2 RJ45 LAN ports</li> </ul>	
Management & Security	Server Management	<ul style="list-style-type: none"> <li>• IPMI2.0, KVM with dedicated LAN</li> <li>• Altos Smart Server Manager</li> <li>• Smart Console remote monitoring</li> </ul>		
	System Security	<ul style="list-style-type: none"> <li>• 1 TPM Header ; Optional TPM 2.0 module</li> </ul>		
Software/Utility	Altos BrainSphere™ AI Development Platform API			
Drive Bays	4 x 3.5" SKU	<ul style="list-style-type: none"> <li>• 4 x 3.5" SAS/SATA hot-swappable bays for HDD/SSD</li> </ul>		
	10 x 2.5" SKU	<ul style="list-style-type: none"> <li>• 8 x 2.5" SAS/SATA hot-swappable bays for HDD/SSD + 2 x 2.5" U.2 hot-swappable bays</li> </ul>		
	10 x 2.5" MVNe SKU	<ul style="list-style-type: none"> <li>• 10 x 2.5" U.2 hot-swappable bays f</li> </ul>		
Power supply	<ul style="list-style-type: none"> <li>• 2 x 1200W redundant power supply, 80 PLUS Platinum</li> </ul>			
Form factor	Form factor	1U, Rackmount		
	Dimensions (D x W x H)	710 x 438 x 43.5 mm approximately		
Tested OS	<ul style="list-style-type: none"> <li>• Window Server 2022 and 2019</li> <li>• Red Hat® Enterprise Linux® 7</li> </ul>		<ul style="list-style-type: none"> <li>• VMware ESXI 6.7</li> <li>• VMware vSAN ReadyNode™</li> </ul>	
	Regulatory Compliance	EMC Safety	CE CB	FCC MET

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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.

