

Altos BrainSphere™ R680S F4

Altos BrainSphere R680S F4 GPU server, equipped with up to 10x NVIDIA GPUs, can significantly enhance performance by using parallel computing power for various applications, such as oil & gas, defense, financial services, research, manufacturing, media & entertainment and, 3D rendering, deep learning, and mission-critical applications.

Extremely Powerful

Powered by 2nd Gen Intel® Xeon® Scalable Processors and the DDR4 memory technology, it allows owners to upgrade computing performance without compromising power consumption. This allows you to save unnecessary datacenter cooling cost and achieve higher DCIE (Data center infrastructure efficiency) value.

Support for 10x GPUs

To succeed in a competitive world, customers need computing results with greater precision and speed. The “GPU server” supports up to ten PCIe x16 slots for GPU cards. With NVIDIA’s GPGPU solutions, this server offers excellent performance and is ideal for accelerating development of AI, deep learning, machine learning, real time analytics, scientific simulation and modeling, visualization and rendering, and much more.

High Flexible

Adding 11th PCIe x16 slot for NVMe deployment or high speed networking like 100 Gigabit EDR Infiniband or Intel Omni-path fabric. And an internal PCIe x8 storage mezzanine slot for SAS HBA or SAS RAID. Users can rest assured the Altos BrainSphere R680S F4 will keep up in any high-performance scenario.



CPU	Processor type	Up to 2 x Intel® Xeon® Scalable Processor / 2nd Gen Intel® Xeon® Scalable Processor			
On-board Devices	Chipset Graphics RAID	Intel® C621 PCH (LBG-1G) + (2) PLX PEX8796 PCIe Switch BMC embedded controller Intel® RSTe 5.0 software SATA RAID 0, 1, 5, 10 (Windows OS support only) [Optional] SAS RAID card or SAS HBA			
	Network controller Storage	2 x 10GBASE-T ports (Intel® X540-BT2) • SKU1: 14 x top-loaded hot-swap 2.5" SSD/HDD • SKU2: 10 x top-loaded hot-swap 2.5" SSD/HDD + 4 x U.2 PCIe NVMe SSD			
Memory	Memory slot	24 x DDR4 DIMM slots			
	Memory type Max memory	Registered / Load Reduced DDR4 2933/2666 memory Up to 768GB RDIMM/ 1,536GB LRDIMM/ 3,072GB RDIMM 3DS/LRDIMM 3DS			
Expansion Slots	PCIe	<ul style="list-style-type: none"> 10 x PCI-E Gen3 x16 slots (Full-height, Full-length, Double-width) for GPU deployment 1 x PCI-E Gen3 x16 slot (Full-height, Full-length, Single-width) 1 x PCI-E Gen3 x16 mezzanine slot 			
I/O Ports	Front I/O ports	<ul style="list-style-type: none"> LED indicators: System status (Over temperature warning indicator / Fan & PSU fail LED indicator), UID, LAN LED indicator, HDD LED indicator 2 x USB 3.0 ports 2 x 10GbE LAN ports (RJ-45) 			
	Rear I/O ports	<ul style="list-style-type: none"> 2 x USB 3.0 ports 2 x 10GbE LAN ports (RJ-45) Management port (RJ-45) 			
Power Supply		4 x 1600W (200-240Vac) / 1000W (100-127Vac) 80 PLUS® Platinum-level hot-swap (3+1) redundant power supply			
Cooler		6 hot-swappable fans			
Form Factor	Form Factor Dimension	4U rack 438mm x 176mm x 770mm			
Operating System		<ul style="list-style-type: none"> Microsoft® Windows Server® 2016/2019 Ubuntu Server 16.04 x64 Red Hat® Enterprise Linux® 7.6/7.x SLES 12 SP3 			
Server Management Utility		<ul style="list-style-type: none"> Remote monitoring and KVM over IP management to OS level Altos Smart Server Manager Embedded BMC controller with IPMI 2.0 compatibility 			
Certifications	EMC & Safety Industry standard compliance	BSMI	CE(Class A)	FCC (Class A)	CB
		UL			

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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.

