Altos BrainSphere™ R685 F5

Altos BrainSphere R685 F5 GPU server, equipped with up to 8x AMD or 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 AMD EPYC™ 7003 series CPUs 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, 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.

8 GPUs support
To succeed in a competitive world, customers need computing results with greater precision and speed. This GPU server supports up to eight PCIe x16 slots for GPU cards. The performance will be definitely boosted to the max level with AMD Radeon Instinct series, the first GPU to support PCIe Gen4 technology, this latest technology has 2x speed comparing its previous generation, this server offers excellent VDI performance with rapid data accessibility from an array of mobile and tablet devices and enables smooth 3D virtual desktop rendering, which cannot be achieved with traditional VDI.

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
## SPECIFICATION

### CPU
- **Processor type**: AMD EPYC™ 7003/7002 series, TDP up to 280W
- **Number of processors**: 2

### On-board Devices
- **Chipset**: SOC
- **IPMI**: ASPEED AST2500 (2D Controller)
- **Graphics**: ASPEED AST2500 BMC (2D Controller)
- **Network controller**: Dual 1GbE Ports (Rear)

### Memory
- **Memory Slot**: 32 DDR4 DIMM slots, 8 Channels
- **Memory Type**: DDR4 3200 Mhz ECC RDIMM up to 128GB, LRDIMM Up to 256GB

### Expansion slots
- **PCIe**: 8 x PCI-E 4.0 x16 for up to 8 x double-width GPU
- 1 x PCI-E 4.0 x16 occupied by 4 x U.2 NVMe SSD, or for PCIe add-on card
- 1 x PCI-E 4.0 x16

### Driver Bays
- **Storage Bays**: Up to 24 Hot-swap 2.5” drive bays (optional for up to 4 U.2 NVMe)
- 2x 2.5” SATA supported natively (RAID 1)

### I/O ports
- **Rear I/O ports**: 2 x RJ45 Ethernet 1GbE ports
- 1 x RJ45 Dedicated IPMI LAN port
- 2 x USB 3.0 ports
- 1 x USB 2.0 (optional)
- 1 x Com (optional)

### Power Supply Unit
- **PSU**: 4 x 2000W (2+2 80Plus Platinum) Redundant Power Supply

### Cooler
- 2 x Active Heat-Sink
- 8 Hot-swap 11.5K RPM cooling system fans

### Form Factor
- **Form Factor**: 4U Rack
- **Dimensions**: 437mm x 178mm x 737mm

### OS
- **Microsoft® Windows Server® 2016/2019**
- **RHEL 7 & RHEL 8**

### Management & Security
- **Management**: IPMI 2.0, KVM with dedicated LAN
- **Smart Console remote monitoring**
- **Altos Smart Server Manager**

### Software
- **Altos BrainSphere™ AI Development Platform API**

### EMC Safety
- CB
- CE (Class A)
- FCC (Class A)
- BSMI

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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.