

# Altos BrainSphere™ R320 F5

Altos BrainSphere™ R320 F5 single-socket server delivers great performance and enterprise-level scalability in a space-saving design. Proactive management utilities effectively handle SMB as well as enterprise business operations, including departmental and branch office needs.

## Smart investment for your growing business

Driven by Intel® Xeon® E family, with great memory capacity and high performance, this rack server uses Intel® C242 to ultimate performance, provide security, virtualization and power management. Flexible expansion slots, plus up to 4 x 3.5" hot-swappable HDD for data storage satisfy the demands of your growing business.

## Meeting business needs with best value

Altos BrainSphere™ R320 F5 is packed with dependable server-class hardware, including an integrated dual ports Gigabit Ethernet controller for speedy and safe data transmission, and built-in 6-channel SATA with software RAID 0, 1, 5 or 10 to ensure data security.



## Cost-effective expandability, green computing

Altos BrainSphere™ R320 F5 is designed with hot-swappable HDD bay chassis that enables easy component access, reducing maintenance and service costs. What's more, this rack server is equipped with an 80 PLUS® Gold power supply or 1+1 redundant 80 PLUS® Gold power supply for maximum energy efficiency.

## 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"> <li>Intel® Xeon® E-2200<sup>(1)</sup> and Xeon® E-2100 Processors</li> <li>Intel® Gen 8<sup>th</sup> and 9<sup>th</sup> Core™ i3 series</li> </ul>		
	Number of processors	1		
On-board Devices	Chipset	Intel® C242		
	SATA	Intel® C242 controller for 6 SATA3 (6 Gbps) ports		
	SATA RAID <sup>(2)</sup>	Intel® C242 chipset with RSTe RAID support for SATA RAID 0, 1, 5, 10 <sup>1</sup>		
	IPMI	ASPEED AST2500 (2D Controller)		
	Graphics	ASPEED AST2500 BMC (2D Controller)		
Memory	Network controller	Dual 1GbE LAN with Intel® I210		
	Memory slot	4 DIMM slots		
Expansion slots	Memory type	Up to 128GB (4 x 32GB) DDR4-2666/2400/2133MHz ECC Unbuffered memory		
	PCIe	1 PCI-E 3.0 x16 (thru Riser Card)		
I/O ports	M.2	1 M.2 2280/22110 slot (M-key, w/PCIe 3.0 x4)		
	Front I/O ports	<ul style="list-style-type: none"> <li>2 x USB 3.2 Gen1</li> </ul>		
Management & Security	Rear I/O ports	<ul style="list-style-type: none"> <li>2 x RJ45 Ethernet LAN ports</li> <li>1 x RJ45 Dedicated IPMI LAN port</li> <li>1 x VGA port</li> <li>1 x USB 3.2 Gen1 Type A</li> </ul>		
	On-board ports	<ul style="list-style-type: none"> <li>2 x USB 3.2 Gen 1</li> <li>2 x USB 2.0</li> <li>1 COM port</li> </ul>		
Drive Bays	Management	<ul style="list-style-type: none"> <li>IPMI 2.0, KVM with dedicated LAN</li> <li>Smart Console remote monitoring</li> <li>Altos Smart Server Manager</li> </ul>		
	TPM	1 TPM Header (optional for TPM module)		
Power Supply	Media bays	1 x Optical Disk Drive		
	Storage bays	4 x 3.5" hot-swappable bays + 1 x 2.5" bay		
System Cooling		<ul style="list-style-type: none"> <li>315W (80Plus Gold) Fixed or</li> <li>300W (80Plus Gold) 1+1 Redundant Power Supply</li> </ul>		
		<ul style="list-style-type: none"> <li>Passive Heat-Sink with Air-duct</li> <li>4 x Fixed system fan</li> </ul>		
Form Factor	Form factor	1U Rack		
	Dimension (D x W x H)	711 x 482.6 x 44.4 (mm)		
Software		Altos BrainSphere™ AI Development Platform API		
OS		<ul style="list-style-type: none"> <li>Microsoft® Windows Server® 2019 / 2016</li> <li>Red Hat® Enterprise Linux®</li> </ul>		
Certification	EMI	CE	FCC	BSMI
	Safety	CB	MET	BSMI

- Support up to 6 core Intel® Xeon® E-2200 series, please contact Altos support team for detail.
- Integrated SATA RAID supports RAID 0, 1, 5, 10 on Windows® OS only

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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.

