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Altos BrainSphere™ P150 F8

The Altos BrainSphere™ P150 F8 is a high-performance workstation featuring Intel® 14th generation Core i processors, the latest DDR5 memory and PCIe Gen 5/Gen 4 expansions support dual NVIDIA® RTX graphic cards. P150 F8 delivers top-notch performance & efficiency to handle graphics-intensive workloads.

Powerful performance

Based on “Intel 7” process technology, Altos BrainSphere™ P150 F8 is built with Intel® 14th generation Core i processors, up to 24 Cores. Except for built-in Intel® UHD Graphics high-quality display technology, P150 F8 also support dual NVIDIA® RTX graphics cards, its RT and Tensor core support real-time ray tracing and artificial intelligence acceleration, providing the best graphics computing performance.

Superior flexibility

Altos BrainSphere™ P150 F8 has four DDR5 memory slots, three PCIe (One Gen 5 & Two Gen 4) expansion slots, dual PCIe Gen 4 M.2 NVMe SSD slots, provides the most flexible and high-speed expansion options. With its unique chassis design, users can easily replace or upgrade internal components, significantly reduce maintenance time & costs.

Faster connection

Featuring the Intel® Killer E310G 2.5Gbps Ethernet Controller, Intel® Wi-Fi AX211 (Gig+), provides industry-leading Wi-Fi connectivity with powerful network technology to minimize lag, latency, and packet loss.

Accelerate AI development

With Altos BrainSphere™ AI Development Platform API service agent, it integrates system, GPU and AI Deep Learning container management to fast build and deploy AI development environments.



CPU	Processor type	Intel 14 th /13 th / 12 th Core™ series, TDP up to 125W		
	Number of processors	1		
On-board Devices	Chipset	Intel® Z690 Chipset		
	SATA	4 SATA3 (6 Gb/s) ports		
	SATA RAID	Intel onboard software RAID 0, 1, 5, 10 (only supports Windows OS) ¹		
	Network controller	2.5 Gb/s (10/100/1000) BASE-T LAN Port (Killer™ E3100G)		
	Audio controller	5.1 CH HD Audio (Realtek® ALC897)		
Memory	Memory slot	4 DIMM slots (Dual channel)		
	Memory type	Up to 32GB, Non-ECC DDR5 4800 MHz UDIMM		
	Total Memory capacity	Up to 128GB		
Expansion slots	PCIe / PCI	<ul style="list-style-type: none">• 1 PCI-E 5.0 x16 slot• 1 PCI-E 4.0 x16 slot (x4 Lanes)• 1 PCI-E 4.0 x1 slot		
	M.2	<ul style="list-style-type: none">• 2 M.2 2280 PCI-E 4.0 slot (For SSD)• 1 M.2 2230 PCI-E 3.0, E Key for Wi-Fi & Bluetooth		
I/O ports	Front I/O Port	<ul style="list-style-type: none">• 4 x USB3.2 Gen1 Type-A Ports• 2 x Audio Jacks (Line In/Out)	<ul style="list-style-type: none">• 1 x USB3.2 Gen2 Type-C Port	
	Rear I/O Port	<ul style="list-style-type: none">• 3 x USB 3.2 GEN2 Type-A Ports• 1 x USB 3.2 GEN2x2 Type-C Port• 1 x RJ45 Port	<ul style="list-style-type: none">• 2 x USB 2.0 Ports• 3 x Audio jacks (In/Out/MIC)	
Drive Bays	Media bay	<ul style="list-style-type: none">• 1 x 3.5" slot• 3 x 5.25" slots		
	Storage bay	<ul style="list-style-type: none">• 4 x 3.5" slots : For hard disks²		
Power supply		1200W Multiple output 24 pins, 80PLUS® Gold PSU		
Form factor	Form factor	Tower		
	Dimensions (D x W x H)	483 (D) x 190 (W) x 416 (H) mm		
OS		<ul style="list-style-type: none">• Microsoft® Windows 11 Pro 64-bit• Red Hat Linux 8.6		
System Authentication		EnergyStar 8.0		
Regulatory Compliance	EMC	CE	FCC	BSMI(Class B)
	Safety	CB	BSMI	

1. Integrated SATA RAID supports RAID 0, 1, 5, 10 on Windows® OS only.
2. P150 F8 depend on configuration maximum support 4 hard disk.
3. Ambient Temperature @25°C or lower with 2 GPU
4. Extended warranty services may vary by country. Please contact Altos for more information

In a continuing effort to improve the quality of our products, information in this brochure is subject to change without notice. Images appearing are only representations of some of the configurations available for this model. Availability may vary depending on region. Altos disclaims any liability for errors and omissions in product descriptions.

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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.