

# Altos BrainSphere™ P10 F7

The BrainSphere™ P10 F7 supports 11<sup>th</sup> Generation Intel® Core™ Processors to handle workloads with higher efficiency. BrainSphere™ P10 F7 support PCIe Gen4 expansion slots and M.2 NVMe SSD makes good flexibility to improve processing performance and data storage speed. Design applications for users with long-term usage needs, performance focus, flexible expansion etc.

## Powerful performance, High-quality output

The BrainSphere™ P10 F7 support 11<sup>th</sup> Generation Intel® Core™ Processors to provides stable performance, with Intel® UHD Graphics high-quality display technology. Support a variety of the latest NVIDIA® graphics cards and the latest Wi-Fi 6 to further get rid of the limitation of distance.

## Flexible expansion and use

The BrainSphere™ P10 F7 Provide two kinds of chassis and different specifications of 80PLUS power supply to option, which can be flexibly matched according to different specifications to meet the needs of users.

## Remote control, Lower the cost

Through the Altos Smart Server Manager (ASSM), IT can remote control and manage the Altos BrainSphere™ server and system, thereby improving efficiency.

ASSM can manage Altos BrainSphere™ workstations running Microsoft Windows 10 Pro to meet workstation management needs.

## 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.



Micro ATX (28L)

ATX (38L)

CPU	Processor type	• Intel® 11 <sup>th</sup> /10 <sup>th</sup> Core™ i9/i7/i5/i3 series Processors		
	Number of processors	1		
On-board Devices	Chipset	Intel® H570 Chipset		
	SATA	4 SATA3 (6 Gb/s) ports		
	SATA RAID	Intel onboard software RAID 0, 1, 5, 10 (only supports Windows OS)		
	Graphics	Intel® UHD Graphics Support (by CPU)		
	Network controller	1 Gb/s (10/100/1000) BASE-T LAN port (Intel® I219V)		
Memory	Audio controller	Realtek ALC897		
	Memory slot	4 DIMM slots (Dual channel)		
	Memory type	Up to 128GB, Non ECC UDIMM, DDR4 3200 MHz		
Expansion slots	PCIe	<ul style="list-style-type: none"> <li>• 1 PCI-E 4.0 x16 slot (Core 11<sup>th</sup> CPU only; Core 10<sup>th</sup> CPU with PCI-E 3.0)</li> <li>• 1 PCI-E 3.0 x4 slot</li> <li>• 1 PCI-E 3.0 x1 slot</li> </ul>		
	M.2	<ul style="list-style-type: none"> <li>• 1 M.2 2280 PCI-E 4.0 slot (Core 11<sup>th</sup> CPU only)</li> <li>• 1 M.2 2280 PCI-E 3.0 slot</li> <li>• 1 M.2 2230 PCI-E 3.0, E Key for Wi-Fi &amp; Bluetooth</li> </ul>		
I/O ports	Front I/O ports	<ul style="list-style-type: none"> <li>• 1 USB 3.2 Gen1 port (Type C)</li> <li>• 2 USB 3.2 Gen1 ports</li> <li>• 2 USB 2.0 ports</li> </ul>	<ul style="list-style-type: none"> <li>• Audio jacks (Combo/Mic In)</li> <li>• Option: Multi-Card Reader</li> </ul>	
	Rear I/O ports	<ul style="list-style-type: none"> <li>• 1 Display Port 1.4</li> <li>• 1 HDMI Port</li> <li>• 2 USB 3.2 Gen2 ports (Type-A)</li> <li>• Option: Thunderbolt™ 4</li> </ul>	<ul style="list-style-type: none"> <li>• 1 Gigabit LAN port (RJ-45)</li> <li>• 4 USB 3.2 Gen1 ports</li> <li>• 3 Audio jacks (Line in/Front Speaker/Microphone)</li> </ul>	
Management & Security		<ul style="list-style-type: none"> <li>• Option: TPM v2.0 module</li> <li>• Option: Altos Smart Server Management software</li> </ul>		
Drive Bays	Media bay	<ul style="list-style-type: none"> <li>• 28L(mATX) SKU: 2 x 5.25" bay, 1 x 3.5" bay</li> <li>• 38L(ATX) SKU: 3 x 5.25" bay, 1 x 3.5" bay</li> </ul>		
	Storage bay	<ul style="list-style-type: none"> <li>• 28L(mATX) SKU: 2 x 3.5" bays</li> <li>• 38L(ATX) SKU: 4 x 3.5" bays</li> </ul>		
Power supply		<ul style="list-style-type: none"> <li>• 28L(mATX) SKU: 500W 80 PLUS Bronze</li> <li>• 38L(ATX) SKU: 750W 80 PLUS Gold</li> </ul>		
Form factor	Form factor	Micro ATX Tower / ATX Tower		
	Dimensions (D x W x H)	<ul style="list-style-type: none"> <li>• 28L(mATX) SKU : 425 (D) x 190 (W) x 350 (H) mm</li> <li>• 38L(ATX) SKU : 483 (D) x 190 (W) x 416 (H) mm</li> </ul>		
Tested OS		<ul style="list-style-type: none"> <li>• Microsoft® Windows® 10 64-bit / 11 64-bit</li> <li>• Red Hat Enterprise Linux 8.4 (Core 11<sup>th</sup> CPU only)</li> <li>• Ubuntu Linux 20.04</li> </ul>		
Regulatory Compliance	EMC	CE	FCC	BSMI(Class B)
	Safety	CB	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.

