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# Altos BrainSphere™ P10 F10

Altos P10 F10 equipped with Intel® Core™ Ultra series 2 processor and support DDR5 memory. Supports PCIe Gen 4 expansion slots and PCIe Gen 4 M.2 NVMe SSD which makes high processing performance and data storage speed. Ideal for users seeking a budget-friendly, easy-to-use entry-level option that offers great value for everyday needs.

## High-Performance Processor:

- Equipped with an **Intel® Core™ Ultra series 2 processor**, delivering excellent computing performance to meet daily business needs.

## Fast Memory and Storage:

- Comes with **DDR5 RAM**, ensuring smooth multitasking.
- Built-in **PCIe M.2 SSD**, providing fast data read/write speeds, quick system boot-up, and rapid application loading.

## Stable and Reliable Design:

- Uses **100% solid capacitors**, enhancing system stability and longevity, making it ideal for long-term business operations.

## Versatile Connectivity:

- Features **up to 9 USB ports**, including **two USB 3.2 Gen 2 10Gbps ports** for high-speed data transfer.
- Supports **up to three display outputs**, allowing for efficient multi-screen workflows.

## Enhanced Security and Management:

- Integrated **Trusted Platform Module (TPM) 2.0** for hardware-level encryption, ensuring data security.



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Specification		
CPU	Processor type	Intel® Core™ Ultra series 2 processor (LGA1851), TDP up to 65W
	Number of processors	1
On-board Devices	Chipset	Intel® B860 Chipset
	SATA	4 SATA3 (6 Gb/s) ports
	Intel® RST <sup>1</sup>	Software RAID 0, 1, 10 for SATA device <sup>1</sup>
	Graphics	Intel® Graphics
	Network controller	1 Gb/s BASE-T LAN Port (Intel® I219V)
	Audio controller	5.1 CH HD Audio (Realtek® ALC897)
Memory	Memory slot	4 DIMM slots (Dual channel)
	Memory type	Up to 48GB DDR5 5600 MHz UDIMM <sup>2</sup>
	Total Memory capacity	Up to 192GB
Expansion slots	PCI-E	<ul style="list-style-type: none"> <li>• 1 PCI-E 5.0 x16 slot</li> <li>• 1 PCI-E 4.0 x16 slot (wired as x4)</li> </ul>
	M.2	<ul style="list-style-type: none"> <li>• 2 M.2 2280 PCI-E 4.0 slots (NVMe SSD)</li> <li>• 1 M.2 2230 PCI-E 3.0, E Key (Wi-Fi &amp; Bluetooth)</li> </ul>
I/O ports	Front I/O Ports	<ul style="list-style-type: none"> <li>• 1 USB3.2 Gen2 Type-A(w/1.5A Sharing@S5) (w/i BC1.2) Port</li> <li>• 2 USB2.0 Type-A Ports</li> <li>• 1 SD Card Reader (Optional)</li> </ul>
	Rear I/O Ports	<ul style="list-style-type: none"> <li>• 1 USB3.2 Gen2 Type-C Port</li> <li>• 1 Universal Audio Jack</li> <li>• 1 VGA Port</li> <li>• 2 DP 2.1 Port</li> <li>• 1 HDMI 2.1 Port</li> <li>• 1 Com Port</li> <li>• 2 USB3.2 Gen2 Type-A Ports</li> <li>• 2 USB 2.0 ports</li> <li>• 1 RJ45 Port</li> <li>• 3 Audio jacks (In/Out/MIC)</li> </ul>
Commercial features		<ul style="list-style-type: none"> <li>• Integrated TPM v2.0</li> <li>• Hard drive password protection (via BIOS)</li> <li>• RAID support (via BIOS)</li> <li>• Kensington lock slot</li> <li>• WOL (Wake on Lan)</li> </ul>
Drive Bays	Media bay (Optional)	• 8X DVD-RW drive, 9.0 mm slim, tray-load, M-DISC Ready™
	Storage bay	<ul style="list-style-type: none"> <li>• [10L] 1 x 3.5" slots : For hard disk</li> <li>• [20L] 2 x 3.5" slots : For hard disks</li> </ul>
Power supply		<ul style="list-style-type: none"> <li>• [10L/20L] 300W Single-rail 12V, 80PLUS® Platinum</li> <li>• [10L/20L] 500W Single-rail 12V, 80PLUS® Platinum</li> <li>• [20L] 750W Single-rail 12V, 80PLUS® Gold</li> </ul>
Dimensions (D x W x H)		<ul style="list-style-type: none"> <li>• [10L] 348.7 (D) x 105 (W) x 335 (H) mm (13.73 x 4.13 x 13.19 inches)</li> <li>• [20L] 335 (D) x 175 (W) x 370 (H) mm (13.19 x 6.89 x 14.57 inches)</li> </ul>
OS		<ul style="list-style-type: none"> <li>• Microsoft® Windows 11 Pro 64-bit</li> <li>• UEFI Shell</li> </ul>
System compliance		RoHS, DMI, GS, ENERGY STAR®, PC2001
Certification		BSMI, CE, FCC, CB
1.	Integrated SATA RAID supports RAID 0, 1, 5, 10 on Windows® OS only.	
2.	Memory speed may vary, depending on the CPU, chipset or memory fitted. MEM Frequency 4800(2DPC-1DIMM), 4400(2DPC-2DIMM).	

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