



# Ultra A+ Server AS -1124US-TNR

1U DP Ultra with up to 12 hot-swap 2.5" NVMe/SAS/SATA bays and 4 PCIe 4.0 x16 slots



## Key Applications

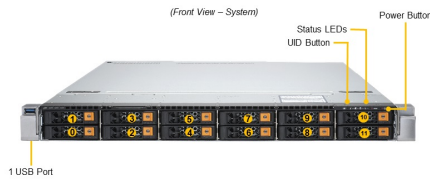
Virtualization, Cloud Computing, High End Enterprise Server,

## Key Features

- Dual AMD EPYC™ 7003/7002 Series Processors  
(The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer);
- 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs;
- Must bundle with optional Ultra Riser Card  
2 PCIe 4.0 x16 FH, 9.5"L  
1 PCIe 4.0 x16 LP  
1 PCIe 4.0 x16 (internal proprietary LP slot), Ultra Riser Card must be bundled in order to enable this slot;
- 12 Hot-swap 2.5" NVMe drive bays  
or SATA3/SAS3 (via optional SAS kit);

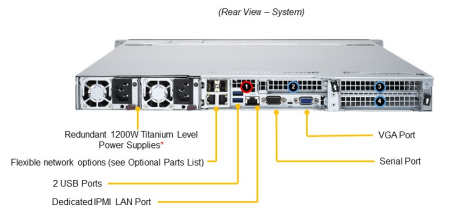


Form Factor	1U Rackmount Enclosure: 437 x 43 x 724mm (17.2" x 1.7" x 28.5") Package: 605 x 203 x 950mm (23.81" x 7.99" x 37.4")
Processor	Dual Socket SP3 AMD EPYC™ 7002/7003 Series Processors
System Memory	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 12 bays <ul style="list-style-type: none"><li>• 12 front hot-swap 2.5" NVMe drive bays</li></ul> Option A: Total 12 bays <ul style="list-style-type: none"><li>• 12 front hot-swap 2.5" SAS drive bays</li></ul> Option B: Total 12 bays <ul style="list-style-type: none"><li>• 12 front hot-swap 2.5" SAS* drive bays</li></ul> (*SAS support may require additional storage controller and/or cables, please see the optional parts list for details)
Expansion Slots	Default <ul style="list-style-type: none"><li>• 1 PCIe 4.0 x16 LP slot</li><li>• 1 PCIe 4.0 x16 INTERNAL slot</li><li>• 2 PCIe 4.0 x16 FH, 9.5"L slots</li></ul>
On-Board Devices	SATA: SATA (6Gbps) Chipset: System on Chip Network Connectivity: Ultra Riser Card
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 4 USB 3.0 Type-A ports(Front) Video: 1 VGA port Serial: 1 COM port DOM: 2 SATA <a href="#">DOM</a> (Disk on Module) ports TPM: 1 TPM header



Slot	Description
0 - 11	2.5" Hot-Swap SATA/SAS/iW/Me Drive Bays

\*SAS3 and SATA support requires additional parts in optional parts list



Slot	Description
1	PCI-E 4.0 x16 (internal proprietary L.P. 6.6'L) slot (CPU1)
2	PCI-E 4.0 x16 (LP 6.6'L) slot (CPU2)
3	PCI-E 4.0 x16 (FH 9.5'L) slot (CPU2)
4	PCI-E 4.0 x16 (FH 9.5'L) slot (CPU2)

CPU 1 CPU 2

\*Full redundancy based on configuration and application load.  
\*\*Ultra Riser Card must be bundled in order to enable this slot

System Cooling	Fans: Up to 8 heavy duty fans with optimal fan speed control
Power Supply	2x 1200W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM BIOS Features: Plug and Play (PnP) USB Keyboard support ACPI 5.1 DMI 2.3 PCI 2.2 SMBIOS 3.1.1
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); KVM with dedicated LAN ; NMI; OOB Management Package (SFT-OOB-LIC )
PC Health Monitoring	CPU: 4+1 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory. FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: N/A Available Color: Black
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 30°C (50°F to 86°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	<a href="#">Super H12DSU-iN</a>
Chassis	CSE-119UTS-R1K22HP-T