

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

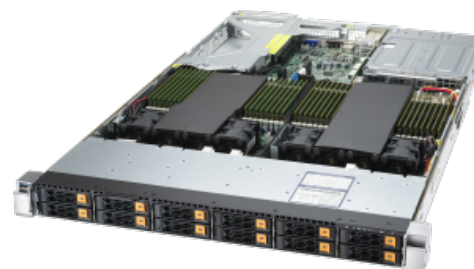


Key Applications

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

- 12 front hot-swap 2.5" NVMe drive bays

Option A: Total 12 bays

- 12 front hot-swap 2.5" SAS drive bays

Option B: Total 12 bays

- 12 front hot-swap 2.5" SAS* drive bays

(*SAS support may require additional storage controller and/or cables, please see the optional parts list for details)

Expansion Slots

Default

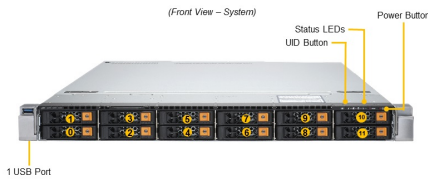
- 1 PCIe 4.0 x16 LP slot
- 1 PCIe 4.0 x16 INTERNAL slot
- 2 PCIe 4.0 x16 FH, 9.5"L slots

On-Board Devices

SATA: SATA (6Gbps)
Network Connectivity: Ultra Riser Card

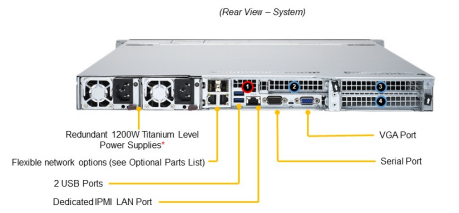
Input / Output

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 [DOM](#) (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 LP / 6.6L) slot (CPU1)
2	PCI-E 4.0 x16 (LP / 6.6L) slot (CPU2)
3	PCI-E 4.0 x16 (FH / 9.5L) slot (CPU2)
4	PCI-E 4.0 x16 (FH / 9.5L) 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	<p>BIOS Type: AMI 32MB SPI Flash EEPROM</p> <p>BIOS Features: Plug and Play (PnP)</p> <ul style="list-style-type: none"> 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	<p>CPU: 4+1 Phase-switching voltage regulator</p> <p>Monitors for CPU Cores, Chipset Voltages, Memory.</p> <p>FAN: Fans with tachometer monitoring</p> <ul style="list-style-type: none"> Pulse Width Modulated (PWM) fan connectors Status monitor for speed control <p>Temperature: Monitoring for CPU and chassis environment</p> <p>Thermal Control for fan connectors</p>
Dimensions and Weight	<p>Weight: N/A</p> <p>Available Color: Black</p>
Operating Environment	<p>RoHS Compliant</p> <p>Operating Temperature: 10°C to 30°C (50°F to 86°F)</p> <p>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</p> <p>Operating Relative Humidity: 8% to 90% (non-condensing)</p> <p>Non-operating Relative Humidity: 5% to 95% (non-condensing)</p>
Motherboard	Super H12DSU-iN
Chassis	CSE-119UTS-R1K22HP-T