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

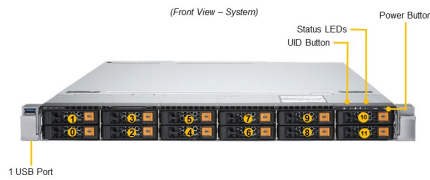More details here

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
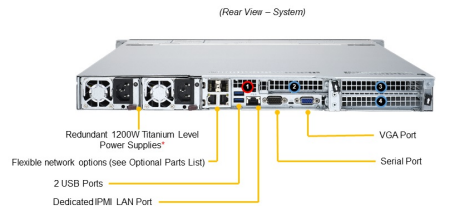 or SATA3/SAS3 (via optional SAS kit);

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) 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 DOM (Disk on Module) ports TPM: 1 TPM header

(Front View – System)

Status LEDs
UID Button
Power Button

1 USB Port

Slot	Description
0 ~ 11	2.5" Hot-Swap SATA³/SAS³/NVMe Drive Bays

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

(Rear View – System)

Redundant 1200W Titanium Level Power Supplies*

Flexible network options (see Optional Parts List)

2 USB Ports

Dedicated IPMI LAN Port

VGA Port

Serial Port

Slot	Description
1	PCI-E 4.0 x16 **(internal proprietary LP, 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

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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

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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

Super H12DSU-iN

Chassis

CSE-119UTS-R1K22HP-T