Ultra A+ Server AS -1024US-TNR

1U DP Ultra with up to 4 hot-swap 2.5" NVMe/SAS/SATA bays and 2 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 slots
  1 PCIe 4.0 x16 LP slot
  1 PCIe 4.0 x16 (internal proprietary LP slot), Ultra Riser Card must be bundled in order to enable this slot;
- 4 hot-swap 3.5" SATA3 by default
  or 4 NVMe (via optional drive tray)
  or 4 SAS3 (via optional SAS kit);



Form Factor	1U Rackmount Enclosure: 437 x 43 x 737mm (17.2" x 1.7" x 29") 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 4 bays • 4 front hot-swap 3.5" SATA drive bays Option A: Total 4 bays • 4 front hot-swap 3.5"/2.5" NVMe* drive bays Option B: Total 4 bays • 4 front hot-swap 3.5" SAS* drive bays (*NVMe/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 • 2 PCIe 4.0 x16 FH, 9.5"L slots • 1 PCIe 4.0 x16 INTERNAL slot
On-Board Devices	Ultra Riser Card
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 3 USB 3.0 Type-A ports (Rear) Video: 1 VGA port DOM: 1 SATA DOM (Disk on Module) port TPM: 1 TPM header

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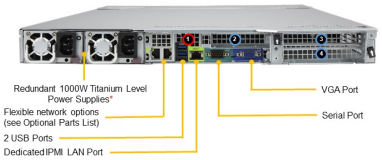
(Front View – System)



Slot	Description
0 - 3	3.5" Hot-Swap SATA/SAS*/NVMe** Drive Bays

*SAS3 support requires additional parts in optional parts list
** NVMe trays are optional

(Rear View – System)



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

System Cooling	Fans: Up to 8 heavy duty fans with optimal fan speed control
Power Supply	2x 1000W 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	SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); OOB Management Package (SFT-OOB-LIC); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. Fan: Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: CPU thermal trip support Monitoring for CPU and chassis environment Thermal Control for 4x 4-pin fan connectors
Dimensions and Weight	Weight: Gross Weight: 41 lbs (18.6 kg) Net Weight: 26 lbs (11.8 kg) Available Color: N/A
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 95°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+ Motherboard® H12DSU-iN**
Chassis	**CSE-819UTS-R1K02P-A**

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