

# 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

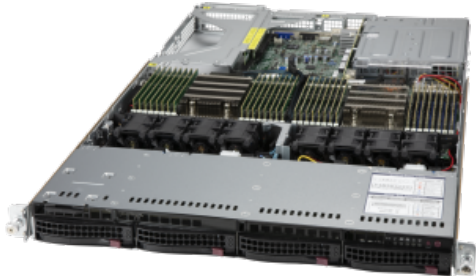


## Key Applications

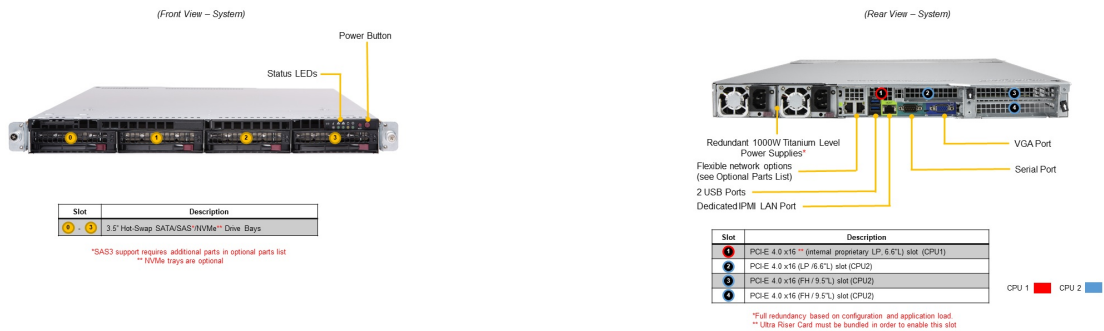
Virtualization, Cloud Computing, High End Enterprise Server,

## 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);



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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 1U Rackmount<br>Enclosure: 437 x 43 x 737mm (17.2" x 1.7" x 29")<br>Package: 605 x 203 x 950mm (23.81" x 7.99" x 37.4")                                                                                                                                                                                                                                                                                                                                                             |
| Processor                | Dual Socket SP3<br>AMD EPYC™ 7002/7003 Series Processors                                                                                                                                                                                                                                                                                                                                                                                                                            |
| System Memory            | Slot Count: 32 DIMM slots<br>Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM                                                                                                                                                                                                                                                                                                                                                                                            |
| Drive Bays Configuration | Default: Total 4 bays <ul style="list-style-type: none"> <li>• 4 front hot-swap 3.5" SATA drive bays</li> </ul> Option A: Total 4 bays <ul style="list-style-type: none"> <li>• 4 front hot-swap 3.5"/2.5" NVMe* drive bays</li> </ul> Option B: Total 4 bays <ul style="list-style-type: none"> <li>• 4 front hot-swap 3.5" SAS* drive bays</li> </ul> (*NVMe/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>• 2 PCIe 4.0 x16 FH, 9.5"L slots</li> <li>• 1 PCIe 4.0 x16 INTERNAL slot</li> </ul>                                                                                                                                                                                                                                                                                                                |
| On-Board Devices         | Ultra Riser Card                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 3 USB 3.0 Type-A ports (Rear)<br>Video: 1 VGA port<br>DOM: 1 SATA <a href="#">DOM</a> (Disk on Module) port<br>TPM: 1 TPM header                                                                                                                                                                                                                                                                                                   |



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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>BIOS Features: Plug and Play (PnP)<br>USB Keyboard support<br>ACPI 5.1<br>DMI 2.3<br>PCI 2.2<br>SMBIOS 3.1.1                                                                                                                                                                                    |
| Management            | SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM);<br>Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); OOB<br>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.<br>Fan: Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: CPU thermal trip support<br>Monitoring for CPU and chassis environment<br>Thermal Control for 4x 4-pin fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 41 lbs (18.6 kg)<br>Net Weight: 26 lbs (11.8 kg)<br>Available Color: N/A                                                                                                                                                                                                                                          |
| Operating Environment | RoHS Compliant<br>Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing)                                                                             |
| Motherboard           | <a href="#">Super H12DSU-iN</a>                                                                                                                                                                                                                                                                                                         |
| Chassis               | CSE-819UTS-R1K02P-A                                                                                                                                                                                                                                                                                                                     |