

## Ultra A+ Server AS -2124US-TNRP

2U Ultra with 24 NVMe bays and dual 10GbE + dual 10G SFP+

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## **Key Applications**

Virtualization, Cloud Computing, High End Enterprise Server, Hyperconverged Storage,

## **Key Features**

- Dual AMD EPYC<sup>™</sup> 7003/7002 Series Processors
   (The latest AMD EPYC<sup>™</sup> 7003 Series Processor with AMD 3D V-Cache<sup>™</sup> Technology requires BIOS version 2.3 or newer);
- 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs;
- 1 PCIe 4.0 x16 slot (FH, 9.5" L)

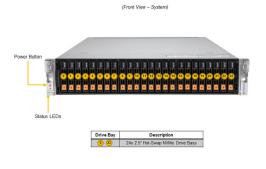
  Additional PCIe slots may available if using the

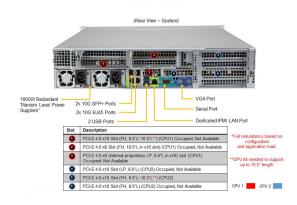
 $\label{thm:policy} \mbox{Additional PCIe slots may available if using the 24 SAS Kits solution (Please contact SMC for more information);}$ 

24 Hot-swap 2.5" NVMe drive bays
 Up to 24 SATA/SAS drive support via optional SAS kit;



2U Rackmount
Enclosure: 437 x 89 x 723mm (17.2" x 3.5" x 28.46")
Package: 626 x 261 x 1153mm (24.65" x 10.28" x 45.39")
Dual Socket SP3
AMD EPYC™ 7002/7003 Series Processors
Slot Count: 32 DIMM slots
Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
Default: Total 24 bays
• 24 front hot-swap 2.5" NVMe drive bays
Option A: Total 24 bays
• 24 front hot-swap 2.5" SAS*/SATA* drive bays
(*SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for
details)
Default
• 1 PCIe 4.0 x16 FH, 9.5"L slot
Chipset: System on Chip
Network Connectivity: 2 RJ45 10GbE
2 SFP+ 10GbE
IPMI: Support for Intelligent Platform Management Interface v.2.0
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support  LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support  LAN: 1 RJ45 1 GbE Dedicated BMC LAN port  2 RJ45 10 GBASE-T LAN ports
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support  LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GBASE-T LAN ports 2 SFP+ 10 GbE LAN ports
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support  LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GBASE-T LAN ports 2 SFP+ 10 GbE LAN ports USB: 2 USB 3.0 ports(rear)
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support  LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GBASE-T LAN ports 2 SFP+ 10 GbE LAN ports USB: 2 USB 3.0 ports(rear) 1 USB 3.0 Type-A port





System Cooling	Fans: Up to 4 heavy-duty PWM with optimal fan speed control Fan(s)
Power Supply	2x 1600W 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®; 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!; IPMICFG; SMCIPMITool; IPMIView
PC Health Monitoring	Temperature: Monitoring for CPU and chassis environment CPU thermal trip support Thermal control for 4x Fan connectors
	FAN: Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
	Up to 4-fan status tachometer monitoring
	Up to four 4-pin fan headers
	CPU: Monitors CPU Core Voltages, +12V, +3.3V, +5V, +5V standby, 3.3V standby, VBAT
	CPU switching voltage regulator
	Other Features: Chassis Intrusion Detection
	Chassis Intrusion Header
Dimensions and Weight	Weight: Gross Weight: 63 lbs (28.6 kg)
	Net Weight: 39 lbs (17.7 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	Super H12DSU-iN
Chassis	CSE-829U2TS-R1K62P3-T