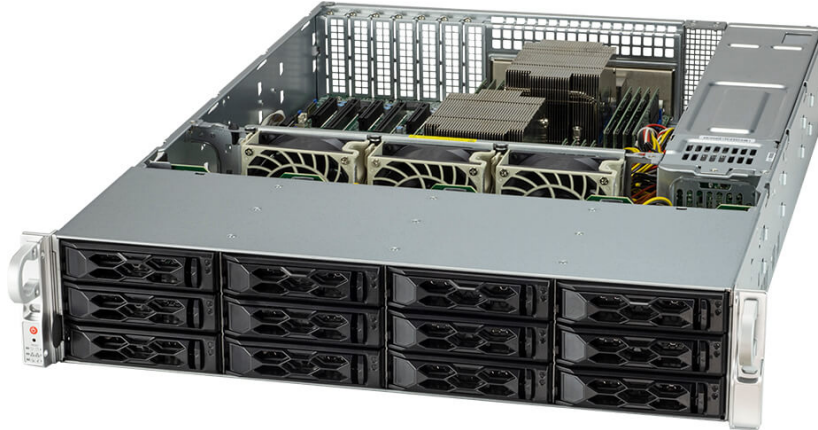# Mainstream A+ Server AS -2024S-TR

NEW

Key Applications

- **- Virtualization**
- **- Enterprise Server**
- **- Data Center Optimized**
- **- Application and data serving**
- **- Model analysis**
- **- Compute Intensive Applications**

Key Features

1. Dual AMD EPYC™ 7003/7002 Series Processors
   Supports Up to 240W CPU TDP

2. AMD® SP3

3. Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz in 16 DIMMS

4. 3 PCI-E 4.0 x16 Low Profile (LP)
   3 PCI-E 4.0 x8 Low Profile (LP)

5. Dual Gigabit LAN

...

Specifications

Product SKUs

AS -2024S-TR	A+ Server AS -2024S-TR (**Silver**)

Motherboard

Super H12DSi-N6

Processor

CPU	• Dual Socket SP3 • AMD EPYC™ 7002/7003 Series Processors • Support CPU TDP 240W
Cores	• Up to 64C/128T; Up to 256MB Cache

System Memory

Memory	• Memory Capacity: 16 DIMM slots • Up to 4TB: 16x 256 GB DRAM • Memory Type: 3200MHz ECC DDR4 RDIMM, LRDIMM
Memory Voltage	• 1.2 V
Error Detection	• ECC

On-Board Devices

Chipset	• AMD SP3
Network Connectivity	• 2x 1GbE BaseT port(s)
IPMI	• Support for Intelligent Platform Management Interface v.2.0 • IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Input / Output

LAN	• 1 RJ45 Dedicated IPMI LAN port • 2 RJ45 1GbE LAN ports
USB	• 4 USB 3.0 port(s) (4 Rear_USB)
Video	• 1 VGA port(s)
Serial Port	• 1 COM Port(s) (1 COM)
DOM	• 2 SuperDOM (Disk on Module) port

Management

Software	• Redfish API • IPMI 2.0 • SSM • SPM • KVM with dedicated LAN • SUM • NMI • Watch Dog • SuperDoctor® 5

Chassis

Form Factor	• 2U Rackmount
Model	• CSE-LA26TS-R920LPP1

Dimensions and Weight

Height	• 3.5" (89mm)
Width	• 17.2" (437mm)
Depth	• 25.5" (648mm)
Package	• 11.4" (H) x 26.7" (W) x 34.5" (D)
Weight	• Net Weight: 33.5 lbs (15.2 kg) • Gross Weight: 60 lbs (27.2 kg)
Available Color	• Silver

Expansion Slots

PCI-Express (PCI-E)	• Slot 1: PCI-E 4.0 x8 LP • Slot 2: PCI-E 4.0 x16 LP • Slot 3: PCI-E 4.0 x8 LP • Slot 4: PCI-E 4.0 x16 LP • Slot 5: PCI-E 4.0 x8 LP • Slot 6: PCI-E 4.0 x16 LP

Drive Bays / Storage

Hot-swap	• 12x 3.5" hot-swap SATA/NVME drive bays (3.5" drive installation is tool-less, 2.5" drives will require screws. Default drive configuration is 8 SATA + 4 NVMe, other configurations require additional optional parts)
M.2	• 1 M.2 NVMe • M-key, 2280, 22110

Backplane

HDD Backplane	• Supports 12 SATA3 or 12 SAS3 or 4 NVMe
Note	• Default drive configuration is 8 SATA + 4 NVMe, other configurations require additional optional parts

System Cooling

Air Shroud	• 1 Clear Plastic Air Shroud(s)
Fans	• 3 Middle 80mm Fan(s)

Power Supply

920W Platinum efficiency level redudant power supply

Dimension **(W x H x L)**	• 76 x 40 x 336 mm

Power Configurations	■ ACPI/APM Power Management

PC Health Monitoring

CPU	■ 4+1 Phase-switching voltage regulator ■ Monitors for CPU Cores, Chipset Voltages, Memory.
FAN	■ Fans with tachometer monitoring ■ Pulse Width Modulated (PWM) fan connectors ■ Status monitor for speed control
Temperature	■ Monitoring for CPU and chassis environment ■ Thermal Control for fan connectors

AC Input	■ 920W: 100-127Vac / 8.5A-11A / 50-60Hz ■ 920W: 200-240Vac / 4.5A-5.5A / 50-60Hz
Output Type	■ Backplanes (gold finger)
Certification	**platinum Level** **[Test Report]**

Operating Environment

Environmental Spec.	■ Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) ■ Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) ■ Operating Relative Humidity: 8% to 90% (non-condensing) ■ Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-H12DSi-N6	1	Super H12DSi-N6 Motherboard
	CSE-LA26TS-R920LPP1	1	2U Chassis
Backplane	BPN-SAS3-LA26A-N12	1	2U 12-Slot LFF Backplane Supports 12 x SAS3/SATA3/NVMe4 Storage Devices with 1x(2x4) + 4x(1x4) power connectors, co-lay with BPN-SAS3-LA26A-N12,HF,RoHS
Cable 1	CBL-PWCD-0160-IS	2	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH
Cable 2	CBL-SAST-1234A-100	2	SlimSAS x4 (STR) to 4x SATA,65CM,100 OHM,RoHS
Cable 3	CBL-SAST-1244-85	2	Slimline x8 (STR) to Slimline x8 (STR),45CM,85 OHM,RoHS
Parts	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
Rail Set	MCP-290-00053-0N	1	Rail set, quick/quick, default for 2,3U 17.2";W
Air Shroud	MCP-310-29001-0N	1	SC825/826/216/213 Intel DP X9,X8 air shroud 13.68x13/12x13
Drive Tray(s)	MCP-410-00016-0N	1	Screw bag and NVMe HDD label for 12x 3.5" Gen-9 HDD Tray
Manual	MNL-2431-QRG	1	AS -2024S-TR Quick Reference Guide
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0063P	2	2U Passive CPU Heat Sink for AMD Socket SP3 Processors
***Power Supply**	PWS-920P-1R2	2	1U, platinum efficiency,920W,AC input:100-127/200-240Vac,HF,
***Power Distributor**	PDB-PT826-L8824	1	2U cost effective PDB support up to 1200W.,RoHS
***Cable 4**	CBL-0071L	1	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF
***FAN 1**	FAN-0181L4	3	80x80x38 mm, 9.4K RPM, Hot-swappable Middle Cooling Fan for X11 Purley Platform Newly Enabled 2U+ Chassis
***Drive Tray(s)**	MCP-220-00184-0B	12	Black gen-9 tool-less cost-effective 3.5
***Rear Window**	MCP-240-82608-0N	1	216B/826B LP rear window,RoHS/REACH,PBF

Notes:
1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

	Part Number	Qty	Description
Gen4 8-ports SAS Raid controller kit	1x AOC-S3908L-H8IR-16DD-P and 1x CBL-SAST-1264F-100	-	Enables 8x hot-swap drive bays to support SAS drives
SuperCap kit for AOC-S3908L-H8IR-16DD-P	1x BTR-CVPM05 and 1x BKT-BBU-BRACKET-05	-	SuperCap and mounting bracket for SAS RAID controller AOC-S3908L-H8IR-16DD
Supermicro Dual-Port Gen-4 Internal NVMe Host Bus Adapter kit	1x AOC-SLG4-2E4T and 1x CBL-SAST-1267-85	-	Enables 2x hot-swap drive bays to support NVMe drives
Supermicro Quad-Port Gen-4 Internal NVMe Host Bus Adapter kit	1x AOC-SLG4-4E4T and 2x CBL-SAST-1267-85	-	Enables 4x hot-swap drive bays to support NVMe drives