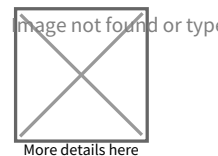


# Mainstream A+ Server AS -2024S-TR



## Key Applications

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

## Key Features

- Dual AMD EPYC™ 7003/7002 Series Processors ;Supports Up to 240W CPU TDP;;
- AMD® SP3;
- Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz in 16 DIMMS;
- 3 PCIe 4.0 x16 Low Profile (LP);3 PCIe 4.0 x8 Low Profile (LP);
- Dual Gigabit LAN;
- 12 hot-swap 3.5" (Tool-less) or 2.5" (screw) drive bays ;(Default configuration is 8 SATA + 4 NVMe) ; (Up to 12x NVMe drives supported with optional NVMe kit);1 M.2 support: ; - M.2 Interface: PCIe 3.0 x4;- M.2 Form Factor: 2260, 2280, 22110;- M.2 Key: M-Key;;
- 3 heavy duty Hot-swappable 9.4K RPM Cooling Fans;1 air shroud;
- 920W Redundant Power Supplies Platinum level;
- 1 rear VGA, 1 Type A port, 1 COM Port, and 4 USB ports;



Form Factor	2U Rackmount Enclosure: 437 x 89 x 648mm (17.2" x 3.5" x 25.5") Package: 678.2 x 289.6 x 876.3mm (26.7" x 11.4" x 34.5")
Processor	Dual Socket SP3 AMD EPYC™ 7002/7003 Series Processors Up to 64C/128T; Up to 256MB Cache per CPU
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
Drive Bays	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) 1 M.2 NVMe M-key, 2280, 22110
Expansion Slots	3 PCIe 4.0 x8 LP slot(s) 3 PCIe 4.0 x16 LP slot(s)
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: 2 USB 2.0 port(s) (2 rear) 2 USB 3.0 port(s) (2 rear) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 COM) DOM: 2 SuperDOM (Disk on Module) port

(Front View – System)


 Power Button  
Status LEDs

Slot	Description
1 - 2	3.5/2.5" Hot-swap NVMe Drive Bays (NVMe from CPU2)
3 - 6	3.5/2.5" Hot-swap SATA/SAS3 Drive Bays*

\*SAS3 support requires additional parts in optional parts list

(Rear View – System)


 Dedicated BMC LAN Port  
COM Port  
VGA Port  
Dual 1G LAN Ports  
4 USB Ports  
Redundant 920W Titanium Level Power Supplies

Slot Description	CPU1	CPU2
1	PCI-E 4.0 x8 Slot (LP)	
2	PCI-E 4.0 x16 Slot (LP)	
3	PCI-E 4.0 x8 Slot (LP)	
4	PCI-E 4.0 x16 Slot (LP)	
5	PCI-E 4.0 x8 Slot (LP)	
6	PCI-E 4.0 x16 Slot (LP)	

**System Cooling**

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

**Power Supply**

920W Redundant Platinum Level power supplies

**Management**

Redfish API; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline; KVM with dedicated LAN; IPMI 2.0

**PC Health Monitoring**

 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  
 CPU: Monitors for CPU Cores, Chipset Voltages, Memory.  
     7 Phase-switching voltage regulator

**Dimensions and Weight**

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

**Operating Environment**

 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)

**Motherboard**
[Super H12DSi-N6](#)
**Chassis**

CSE-LA26TS-R920LPP1

## Parts List

### Standard Parts (Parts Included)

#### Motherboard / Chassis

Part Number	MBD-H12DSi-N6	CSE-LA26TS-R920LPP1
Qty	1	1
Description	Super H12DSi-N6 Motherboard	2U Chassis

#### Backplane

Part Number	BPN-SAS3-LA26A-N12
Qty	1
Description	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

Part Number	CBL-PWCD-0160-IS	CBL-SAST-1234A-100	CBL-SAST-1244-85	CBL-0071L
Qty	2	2	2	1
Description	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH	SlimSAS x4 (STR) to 4x SATA,65CM,100 OHM,RoHS	Slimline x8 (STR) to Slimline x8 (STR),45CM,85 OHM,RoHS	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF

#### Parts

Part Number	MCP-260-00042-0N
Qty	1
Description	STD I/O shield for X9 socket R server MB with Gasket.

#### Rail Set

Part Number	MCP-290-00053-0N
Qty	1
Description	Rail set, quick/quick, default for 2,3U 17.2"W

#### Air Shroud

Part Number	MCP-310-29001-0N
Qty	1
Description	SC825/826/216/213 Intel DP X9,X8 air shroud 13.68x13/12x13

#### Drive Tray(s)

Part Number	MCP-410-00016-0N	MCP-220-00184-0B
Qty	1	12
Description	Screw bag and NVMe HDD label for 12x 3.5" Gen-9 HDD Tray	Black gen-9 tool-less cost-effective 3.5

#### Manual

Part Number	MNL-2431-QRG
Qty	1
Description	AS -2024S-TR Quick Reference Guide

#### Software

Part Number	SFT-OOB-LIC
Qty	1
Description	License key for enabling OOB BIOS management

#### Heatsink / Retention

Part Number	SNK-P0063P
Qty	2
Description	2U Passive CPU Heat Sink for AMD Socket SP3 Processors

#### \*Power Supply

Part Number	PWS-920P-1R2
Qty	2
Description	1U, platinum efficiency,920W,AC input:100-127/200-240Vac,HF,

#### \*Power Distributor

Part Number	PDB-PT826-L8824
Qty	1
Description	2U cost effective PDB support up to 1200W,,RoHS

#### \*Fan

Part Number	FAN-0181L4
Qty	3
Description	80x80x38 mm, 9.4K RPM, Hot-swappable Middle Cooling Fan for X11 Purley Platform Newly Enabled 2U+ Chassis

#### \*Rear Window

Part Number	MCP-240-82608-0N
Qty	1
Description	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

#### Cable Arm Kit

Part Number	1x MCP-120-82503-0N and 1x MCP-290-00073-0N
Qty	-
Description	Supermicro Cable Management Arm for 2U, 3U and 4U chassis

#### Gen4 8-ports SAS Raid controller kit

Part Number	1x AOC-S3908L-H8IR-16DD-P and 1x CBL-SAST-1264F-100
Qty	-
Description	Enables 8x hot-swap drive bays to support SAS drives

#### SuperCap kit for AOC-S3908L-H8IR-16DD-P

Part Number	1x BTR-CVPM05 and 1x BKT-BBU-BRACKET-05
Qty	-

Description SuperCap and mounting bracket for SAS RAID controller AOC-S3908L-H8IR-16DD

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Supermicro Dual-Port Gen-4 Internal NVMe Host Bus Adapter kit

Part Number 1x AOC-SLG4-2E4T and 1x CBL-SAST-1267-85

Qty -

Description Enables 2x hot-swap drive bays to support NVMe drives

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Supermicro Quad-Port Gen-4 Internal NVMe Host Bus Adapter kit

Part Number 1x AOC-SLG4-4E4T and 2x CBL-SAST-1267-85

Qty -

Description Enables 4x hot-swap drive bays to support NVMe drives

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[Global SKU \(/en/products/SMC\\_global\\_skus\)](#)

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