

A+ Server 2014CS-TR (Complete System Only)



Integrated Board



Super H12SSW-AN6

Views: | [Angled View](#) | [Top View](#) |
| [Front View](#) | [Rear View](#) |

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (For optimal performance, 8 DIMMs are recommended). Minimum requirement is 1 CPU, 4 DIMMs, 1 HDD/NVMe and 1 AIOM/AOC NIC card.

▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [Tested M.2 List](#) ▶ [NVMe Options](#) ▶ [Tested AOC](#) ▶ [Manuals](#) ▶ [OS Certification Matrix](#) ▶ [Compatible GPU List](#) ▶ [Quick-References Guide](#) ▶ [Drive Options](#) ▶ [Tested AIOM](#)

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Key Applications

- Financial Services
- Cloud Computing
- Network Appliance
- Private Cloud
- Content Delivery Network (CDN)
- Deep Learning Inferencing

Key Features

1. Single AMD EPYC™ 7002/7003 Series Processor
(The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer)
2. 16 DIMMs; up to 4TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM
3. Expansion slots:
4 PCI-E 4.0 x16 (FH, 10.5" L) slots;
2 AIOM slots for flexible networking
(One x8 AIOM slot and one x16 AIOM slot)
4. Integrated IPMI 2.0 + KVM with dedicated LAN
 - **Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management**
5. 12 Hot-swap 3.5" SATA3/SAS3/NVMe drive bays:
12 SATA3 by default
or 8 SATA3 + 4NVMe via optional cables
or 12 SAS3 via optional SAS kit;
Optional 2x 2.5" peripheral drive bays via rear drive bay kits
M.2 Interface: 2 PCI-E 4.0 x4
M.2 Form Factor: 2242, 2260, 2280, 22110
M.2 Key: M-Key
6. 2 USB 3.0 ports (rear),
1 VGA, 1 COM,
ASPEED AST2600 BMC graphics
7. Tool-less Drive Trays and Tool-less Brackets
8. 920W Redundant Platinum Level Power Supplies
(Full redundancy based on configuration and application load)



Specifications

Product SKUs

AS -2014CS-TR ■ A+ Server 2014CS-TR (Black)

Motherboard

Super H12SSW-AN6

Processor/Chipset

CPU ■ Single AMD EPYC™ 7002/7003 Series Processor (The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer)

- Socket SP3
- Supports CPU TDP up to 280W

Cores ■ Up to 64 Cores

System Memory

Memory Capacity ■ 16 DIMM slots
■ Up to 4TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM

Memory Type ■ DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs

On-Board Devices

Chipset ■ System on Chip

SATA ■ SATA3 (6Gbps)

Network Controllers ■ Flexible networking provided via AIOM

IPMI ■ Support for Intelligent Platform Management Interface v.2.0
■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Video ■ ASPEED AST2600 BMC

Input / Output

SATA ■ 16 SATA3 (6 Gbps) ports

LAN ■ Networking provided via AIOM
■ 1 RJ45 Dedicated IPMI LAN port

USB ■ 2 USB 3.0 ports (rear)

COM ■ 1 COM Port (rear)

Video ■ 1 VGA port

System BIOS

BIOS Type ■ AMI 256Mb SPI Flash EEPROM

Management

Software ■ Super Doctor 5
■ Watch Dog
■ NMI
■ SUM
■ IPMI 2.0, KVM with dedicated LAN

Power Configurations ■ ACPI / APM Power Management

Chassis

Form Factor ■ 2U Rackmount

Model ■ **CSE-LA26TS-R920AWP**

Dimensions and Weight

Width ■ 17.2" (437mm)

Height ■ 3.5" (89mm)

Depth ■ 25.5" (648mm)

Package ■ 26.4" (W) 11.4" (H) 34.3" (D)

Gross Weight ■ 59 lbs (26.76 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
■ UID button

LEDs ■ Power status LED
■ HDD activity LED
■ Network activity LEDs
■ Universal Information (UID) LED

Expansion Slots

PCI-Express ■ 4 PCI-E 4.0 x16 (FH, 10.5"L) slots
■ 2 PCI-E 4.0 x16 AIOM networking slots (One x8 AIOM slot and one x16 AIOM slot)

Drive Bays

Hot-swap ■ 12 Hot-swap 3.5" drive bays:
■ 12 SATA3 by default
■ or 8 SATA3 + 4NVMe via optional cables
■ or 12 SAS3 via via optional SAS kit
■ Optional 2x 2.5" peripheral drive support via additional rear drive bays kits

Backplane

SAS/SATA/NVMe HDD Backplane

System Cooling

Fans ■ 3x 80x80x38mm middle cooling fans

Power Supply

1U 920W redundant power supply

Total Output Power and Input ■ 920W with Input 100 - 127Vac
■ 920W with Input 200 - 240Vac
■ 920W with Input 200 - 240Vdc

Dimension (W x H x L) ■ 76 x 40 x 336 mm

AC Input Frequency ■ 50-60Hz

+12V ■ Max: 75A / Min: 0A (100Vac-127Vac)
■ Max: 75A / Min: 0A (200Vac-240Vac)

+5Vsb ■ Max: 4A / Min: 0A

PC Health Monitoring

CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> 3 Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors

Output Type	<ul style="list-style-type: none"> Backplanes (connector)
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Certification	
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**Operating Environment**

RoHS	<ul style="list-style-type: none"> RoHS Compliant
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Environmental Spec.	<ul style="list-style-type: none"> 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)
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Parts List


Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-H12SSW-AN6	1	Super H12SSW-AN6 Motherboard
	CSE-LA26TS-R920AWP	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-SAST-1236-100	1	Slimline x8 (LE) to 2x Slimline x4 (STR),36/36CM,100 OH
Cable 2	CBL-SAST-1285LP-100	1	SlimlineLP x4 (STR) to Slimline x4 (STR),57CM,100 OHM,Ro
Riser Card	RSC-D2-666G4	1	2U LHS DCO Riser card with three PCI-E 4.0x16slotsHFRoHS
Riser Card	RSC-D2R-666G4	1	2U RHS DCO Riser card with three PCI-E 4.0 x16slotsHFRoH
Heatsink / Retention	SNK-P0063P	1	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-S4824	1	Based on PDB-PT826-8824 to add 2pcs 8pin for option support
*FAN	FAN-0206L4	3	80x80x38 mm, 13.5K RPM, Middle Cooling Fan for 2U and above Servers
*Rail Set	MCP-290-00053-0N	1	Rail set, quick/quick, default for 2,3U 17.2";W
Software	<u>SFT-OOB-LIC</u> • 	1	OOB Management Package (per node license)

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
Optional Power Supply	PWS-1K23A-1R • 	1	1200W 100-240Vac, and DC240 input
Storage Control Card and Cable(s)	AOC-S3008L-L8e 1x CBL-SAST-1260-100 (support up to 8 SAS3 HDD)	-	Std LP, 8 WIO L ports, 12Gb/s per port- Gen3, 122HDD, HBA; MiniSAS HD x8 (LE) to 2x Slimline x4 (STR),60CM,100 OHM
	AOC-S3008L-L8i 1x CBL-SAST-1260-100 (support up to 8 SAS3 HDD)	-	Std LP, 8 WIO L ports, 12Gb/s per port- Gen3, 63HDD, RAID 0,1,1E; MiniSAS HD x8 (LE) to 2x Slimline x4 (STR),60CM,100 OHM
	AOC-S3108L-H8iR/16DD 1x CBL-SAST-1260-100 (support up to 8 SAS3 HDD)	-	Std LP, 8 WIO L ports, 12Gb/s per port- Gen3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60; MiniSAS HD x8 (LE) to 2x Slimline x4 (STR),60CM,100 OHM
	AOC-S3616L-L16IT 1x CBL-SAST-1285-100 1x CBL-SAST-1260-100 (support up to 12 SAS3 HDD)	-	16 int 12Gb/s ports, 16xGen3, IOC/IT mode - LP; Slimline x4 (STR) to MiniSAS HD (STR) x4,85CM,100 OHM,R MiniSAS HD x8 (LE) to 2x Slimline x4 (STR),60CM,100 OHM
	<u>AOC-S3808L-L8IT</u> 1x CBL-SAST-1276F-100 (support up to 8 SAS3 HDD)	-	Standard LP, 8 internal ports (12Gb/s) Gen-4, 16HDD; HBA; Slimline x8 (LE) to 2x Slimline x4 (STR),76/76CM
	<u>AOC-S3816L-L16IT</u> 1x CBL-SAST-1276F-100 1x CBL-SAST-1265F-100 (support up to 12 SAS3 HDD)	-	Standard LP, 16 internal ports (12Gb/s) Gen-4, 122HDD; HBA; Slimline x8 (LE) to 2x Slimline x4 (STR),76/76CM; Slimline x8 (STR) to Slimline x4 (STR),64CM
Cable Management Arm	MCP-290-00073-0N	1	Supermicro Cable Management Arm for 2U, 3U and 4U chassis
	MCP-120-82601-0N	1	Cable arm adapter for SCLA26-AW

Optional Parts List

	Part Number	Qty	Description
CacheVault(s)	BTR-TFM8G-LSICVM02	-	CacheVault for Broadcom 3108
	BKT-BBU-BRACKET-05		Supercap mounting bracket for PCI-E location
	BTR-TFM8G-LSICVM02	-	CacheVault for Broadcom 3108
	MCP-240-00127-0N		Supercap mounting bracket for 2.5" HDD location
Optional Kit for NVMe Solution	CBL-SAST-1236LP-85 <i>(Support 4 NVMe drives slot per cables for HDD slot 0~3)</i>	2	Slimline x8 (STR) to 2x SlimlineLP x4 (STR),FFC,40/40CM
M.2 by AOC	AOC-SLG3-2H8M2	1	2x Hybrid NVMe/SATA M.2 RAID Carrier, Standard LP,RoHS
Rear Window SATA Drive Kit	<u>MCP-220-82616-0N</u>	1	Rear Window Module for 2x 2.5" SATA/SAS Drives
	CBL-SAST-1295LP-100	1	SlimlineLP x4 (STR) to 4x SATA (STR),75/75/90/90/75CM
TPM	AOM-TPM-9665V	-	Vertical TPM with Infineon 9665 TCG 1.2
	AOM-TPM-9665V	-	AOM-TPM-9665V using SLB9665 Chipset supporting TPM2.0,RoHS/REACH
Global Services & Support	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)