

# A+ Server 1014S-WTRT



Integrated Board



**Super H12SSW-NT**

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

**[▶ Drivers & Utilities](#) | [▶ BIOS](#) | [▶ IPMI](#) | [▶ Tested Memory](#) | [▶ Tested M.2 List](#) | [▶ NVMe Options](#) | [▶ Tested AOC](#) | [▶ Drive Options](#)**

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

## Key Features

- ❑ **DB Processing & Storage**
- ❑ **Data Center Applications**
- ❑ **Firewall Applications**

1. Single AMD EPYC™ 7002 Series Processor
2. 8 DIMMs; up to 2TB 3DS ECC DDR4-3200MHz RDIMMLRDIMM
3. 2 PCI-E 4.0 x16 (FHFL) slots, 1 PCI-E 4.0\* x16 (LP) 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. 4 Hot-swap 3.5" SATA3 drive bays, Optional 4 U.2 NVMe (PCI-E 3.0) drive support via additional kit for NVMe devices
6. 2x 10GBase-T LAN ports via Broadcom BCM57416 Controller
7. 1 VGA, 5 USB 3.0 (4 rear, 1 Type A)
8. 2 SuperDOM (Disk on Module) ports
9. 500W Redundant Power Supplies Platinum Level High-efficiency *(Full redundancy based on configuration and application load)*



# Specifications

## Product SKUs

- AS -1014S-WTRT** ■ A+ Server 1014S-WTRT (Black)

## Motherboard

### Super H12SSW-NT

## Processor/Cache

- CPU** ■ Single AMD EPYC™ 7002 Series Processor
  - Socket SP3
  - Support CPU TDP up to 240W

- Cores** ■ Up to 64 Cores

## System Memory

- Memory Capacity** ■ 8 DIMM slots
  - Up to 2TB 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** ■ Dual 10GBase-T LAN with via Broadcom BCM57416

- 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 AST2500 BMC

## Input / Output

- NVMe** ■ 4 U.2 NVMe Support via optional kit

- SATA** ■ 4 SATA3 (6 Gbps) ports

- LAN** ■ 2 RJ45 10GBase-T ports
  - 1 RJ45 Dedicated IPMI LAN port

- USB** ■ 5 USB 3.0 ports (4 rear, 1 Type A)

- Video** ■ 1 VGA port

- DOM** ■ 2 SuperDOM (Disk on Module) ports

## System BIOS

- BIOS Type** ■ AMI 32Mb SPI Flash ROM

## Management

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

- Power Configurations** ■ ACPI / APM Power Management

## PC Health Monitoring

## Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ **CSE-815TS-R504WBP4**

## Dimensions and Weight

- Height** ■ 1.7" (43mm)

- Width** ■ 17.2" (437mm)

- Depth** ■ 25.6" (650mm)

- Package** ■ 23.5" (W) x 8.5" (H) x 33.7" (L)

- Weight** ■ Gross Weight: 46 lbs (20.87kg)
  - Net Weight: 22 lbs (9.98kg)

- 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** ■ 2 PCI-E 4.0 x16 (FHHL) slots
  - 1 PCI-E 4.0\* x16 (LP) slot
  - 2 PCI-E/ SATA 3.0 x2 NVMe M.2 slots

\* **Limited Support:** On some PCI-E 4.0 devices, it will only run at PCI-E 3.0 speed.

## Drive Bays

- Hot-swap** ■ 4 Hot-swap 3.5" SATA3 drive bays
  - Optional 4 U.2 NVMe (PCI-E 3.0) drive support via additional kit for NVMe devices

- Peripheral** ■ 1 Slim DVD-ROM drive bay (optional)

## Backplane

SAS/SATA/NVMe HDD Backplane

## System Cooling

- Fans** ■ 4 Counter-rotating 4cm PWM fans, 2 fans for cooling AOC

## Power Supply

500W Redundant Power Supplies with PMBus

- Total Output Power** ■ 500W

- Dimension (W x H x L)** ■ 54.5 x 40.25 x 320 mm

- Input** ■ 100-240Vac, 50-60Hz, 6.1-2.6A

- +12V** ■ Max: 42A / Min: 0.5A

- +5Vsb** ■ Max: 4A / Min: 0A

- Output Type** ■ Gold Finger Connector Mating with Molex 45984-4343

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- CPU**
- Monitors for CPU Cores, Chipset Voltages, Memory.
  - 4+1 Phase-switching voltage regulator
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- FAN**
- Fans with tachometer monitoring
  - Status monitor for speed control
  - Pulse Width Modulated (PWM) fan connectors
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- Temperature**
- Monitoring for CPU and chassis environment
  - Thermal Control for fan connectors
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- With Power Distributor**
- +5V: 25A
  - +3.3V: 12A
  - -12V: 0.6A
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**Certification**  **Platinum Certified**  
[ [Test Report](#) ]

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**Operating Environment**

- RoHS**
- RoHS Compliant
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- 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)
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# Parts List

## Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-H12SSW-NT	1	Super H12SSW-NT Motherboard
	CSE-815TS-R504WBP4	1	1U Chassis
<b>Backplane</b>	BPN-SAS3-815TQ-N4	1	4-port 1U SAS3 12Gbps Hybrid backplane, support up to 4x 3.5-inch SAS3/SATA3/NVMe Storage Devices
<b>Cable</b>	CBL-SAST-0827	1	SLIMLINE SAS x8 (LE) to 8 SATA x4,INT, 70CM,32AWG, 85 O
<b>Riser Card</b>	RSC-W-66G4	1	1U LHS WIO Riser card with two PCI-E 4.0 x16 slots,HF,RoHS
<b>Riser Card</b>	RSC-WR-6	1	1U RHS WIO Riser card with one PCI-E 4.0 x16 slot,HF,RoHS
<b>Heatsink / Retention</b>	SNK-P0062P	2	1U Passive CPU Heat Sink for AMD Socket SP3 Processors
<b>Power Supply</b>	PWS-504P-1R	2	500W 1U Redundant PWS W/ 54.5MM Wide
<b>Power Distributor</b>	PDB-PT112-S2424	1	WIO X11 Support,PDB-PT112-S2424 is based on PDB-PT112-2424
<b>FAN</b>	FAN-0141L4	4	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan
<b>Parts</b>	MCP-240-00099-0N	1	1U WIO riser card bracket for SC113, SC815, SC119, SC819
<b>Drive Tray(s)</b>	MCP-220-00075-0B	4	Black gen 5.5 hot-sw ap 3.5" HDD tray
<b>Rear Window</b>	MCP-240-00098-0N	1	WIO rear window for SC113,SC116, SC815 Redundant PWS
<b>Rail Set</b>	MCP-290-00054-0N	1set	Rail set, quick/quick, optional for 1U 17.2"W SC815
<b>Software</b>	<u>SFT-OOB-LIC</u> • eStore	1	OOB Management Package (per node license)

## Optional Parts List

	Part Number	Qty	Description
<b>2.5" to 3.5" Converter Tray</b>	MCP-220-00043-0N	-	Black Hot-sw ap Gen-4 2.5" to 3.5" HDD tray
<b>Optional Kit for 4 U.2 NVMe Drive Support</b>	CBL-SAST-0817	2	SLIMLINE SAS x8 (LA) to 2x Oculink x4,INT, 36CM,34AWG
	MCP-220-00138-0B	4	Black gen-5.5 tool-less NVMe 3.5-to-2.5 drive tray, Orange tab
<b>DVD-ROM / DVD-RW</b>	DVM-TEAC-DVD-SBT5	1	TEAC slim DVD-ROM SATA drive
	DVM-PLDS-DVDRW-SBT5	1	PHILIPS slim DVD-RW SATA drive
<b>DVD-ROM Accessory</b>	MCP-220-81502-0N	1	Slim SATA DVD mounting kit
<b>Cooling Fan</b>	FAN-0141L4	2	40x40x56mm 13K-11K RPM Counter-rotating Fan
<b>Storage Controller card &amp; cable</b>	AOC-S3108L-H8iR & 1x CBL-SAST-0699	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3108L-H8iR-16DD & 1x CBL-SAST-0699	-	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, 16HDD RAID controller, RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3008L-L8i & 1x CBL-SAST-0699	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 63HDD, RAID 0, 1, 10
	AOC-S3008L-L8e & 1x CBL-SAST-0699	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 122HDD HBA
<b>CacheVault</b>	BTR-CV3108-1U1	-	CacheVault for Broadcom 3108 with SuperCap mounting in 1Y 40x56 fan tray
	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108 with SuperCap mounting bracket for PCI-E location
<b>Front Bezels</b>	CSE-PTFB-813LB	-	Black front bezels
	CSE-PTFB-813-02B	-	Black Front Bezel w/ Round Venting Holes
<b>TPM security module</b>	AOM-TPM-9665V	-	Vertical TPM with Infineon 9655 TCG 1.2
	AOM-TPM-9665V-S	-	Based on AOM-TPM-9665V with Server TXT package
	AOM-TPM-9665V	-	AOM-TPM-9665V using SLB9665 Chipset supporting TPM2.0,RoHS/REACH
	AOM-TPM-9665V-S	-	Vertical TPM TCG 2.0 Provisioned for a server,RoHS/REACH
<b>Global Services &amp; Support</b>	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
	<u>OSNBD3/2/1</u>	-	3/2/1-year onsite NBD service
<b>Software</b>	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)

