

A+ Server 1114S-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](#) | [▶ 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**

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1. Single AMD EPYC™ 7002 Series Processor
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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**
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5. 10 Hot-swap 2.5" SATA3 drive bays, Optional 2 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,
7 USB 3.0 (4 rear, 2 front, 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)*
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Specifications

Product SKUs

- AS -1114S-WTRT
 - A+ Server 1114S-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

- SATA
 - 2 SATA3 (6 Gbps) ports

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

- USB
 - 7 USB 3.0 ports (4 rear, 2 front, 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-116TS-R504WBP

Dimensions and Weight

- Width
 - 17.2" (437mm)

- Height
 - 1.7" (43mm)

- Depth
 - 23.5" (597mm)

- Gross Weight
 - 46 lbs (20.9kg)

- 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
 - 10 Hot-swap 2.5" SATA3 drive bays
 - Optional 2 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 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](#)]

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
Motherboard / Chassis	MBD-H12SSW-NT	1	Super H12SSW-NT Motherboard
	CSE-116TS-R504WBP	1	1U Chassis
Backplane	BPN-SAS3-116A-N2	1	10-Port 1U Backplane for 8x2.5" SAS3/SATA3 HDD/SSD and 2xSAS2/SATA3 HDD/SSD or NVMe SSD
Riser Card	RSC-W-66G4	1	1U LHS WIO Riser card with two PCI-E 4.0 x16 slots,HF,RoHS
Riser Card	RSC-WR-6	1	1U RHS WIO Riser card with one PCI-E 4.0 x16 slot,HF,RoHS
Heatsink / Retention	SNK-P0062P	2	1U Passive CPU Heat Sink for AMD Socket SP3 Processors
Power Supply	PWS-504P-1R	2	500W 1U Redundant PWS W/ 54.5MM Wide
Power Distributor	PDB-PT112-S2424	1	WIO X11 Support,PDB-PT112-S2424 is based on PDB-PT112-2424
FAN	FAN-0141L4	4	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan
Parts	MCP-240-00099-0N	1	1U WIO riser card bracket for SC113, SC815, SC119, SC819
Drive Tray(s)	MCP-220-00047-0B	10	Black gen 3rd hot-sw ap 2.5inch HDD tray
Rear Window	MCP-240-00098-0N	1	WIO rear window for SC113,SC116, SC815 Redundant PWS
Rail Set	MCP-290-00063-0N	1set	Rail set, quick/quick, default for 1U 17.2"W for SC113/SC116,RoHS/REACH
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)

Optional Parts List

	Part Number	Qty	Description
Optional Kit for 2 U.2 NVMe Drive Support	CBL-SAST-0826	1	SLIMLINE SAS x8 (LE) to 2x MINI SAS HD,INT, 70CM,32AWG
	MCP-220-00167-0B	2	Gen 3 2.5-inch Tool-less NVMe drive tray (clip design),RoHS
Cooling Fan	FAN-0141L4	2	440x40x56mm 14.4K-10.7K RPM Counter-rotating Fan
Storage Controller card & cable	AOC-S3108L-H8iR & 2x CBL-SAST-0593	-	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 & 2x CBL-SAST-0593	-	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 & 2x CBL-SAST-0593	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 63HDD, RAID 0, 1, 10
	AOC-S3008L-L8e & 2x CBL-SAST-0593	-	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 122HDD HBA
CacheVault	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
Front Bezels	MCP-210-11601-0B	1	Black front bezels
TPM security module	AOM-TPM-9655V	-	Vertical TPM with Infineon 9655 TCG 1.2
	AOM-TPM-9655V-S	-	Based on AOM-TPM-9655V 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
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)