

A+ Server 1114S-WN10RT (Complete System Only)



Integrated Board



Super H12SSW-NTR

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 is recommended). Minimum requirement is 1 CPU, 2 DIMMs, 1 NVMe/HDD.

► [Drivers & Utilities](#) ► [BIOS](#) ► [IPMI](#) ► [Tested Memory](#) ► [Tested M.2 List](#) ► [NVMe Options](#) ► [Tested AOC](#) ► [Manuals](#) ► [OS Certification Matrix](#) ► [Drive Options](#)

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

Key Features

Virtualization
Cloud Computing
All Flash Storage

1. Single AMD EPYC™ 7003/7002 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. 2 PCI-E 4.0 x16 (FHHL) 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. 10 Hot-swap U.2 NVMe4/NVMe3/SATA3 fully hybrid drive support
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. 750W Redundant Power Supplies
Platinum Level High-efficiency
(Full redundancy based on configuration and application load)



Specifications

Product SKUs

AS -1114S-WN10RT	■ A+ Server 1114S-WN10RT (Black)
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Motherboard

Super H12SSW-NTR

Processor/Cache

CPU	■ Single AMD EPYC™ 7003/7002 Series Processor (The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer) ■ Socket SP3 ■ Support 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	■ 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 256Mb SPI Flash ROM
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Management

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

Form Factor	■ 1U Rackmount
Model	■ CSE-116TS-R706WBP5-N10

Dimensions and Weight

Width	■ 17.2" (437mm)
Height	■ 1.7" (43mm)
Depth	■ 23.5" (597mm)
Package	■ 7.63" (H) 23.42" (W) 31.45" (D)
Weight	■ Net Weight: 25 lbs (11.34 kg) ■ Gross Weight: 39 lbs (17.69 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	■ 2 PCI-E 4.0 x16 (FHHL) slots ■ 1 PCI-E 4.0* x16 (LP) slot ■ 2 PCI-E 4.0 x2 NVMe M.2 slots * Limited Support: On some PCI-E 4.0 devices, it will only run at PCI-E 3.0 speed.
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Drive Bays

Hot-swap	■ 10 Hot-swap U.2 NVMe4/NVMe3/SATA3 fully hybrid drive support
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Backplane

Supports 10 NVMe or 10 SATA3

System Cooling

Fans	■ 6 heavy duty fans with Optimal Fan Speed Control
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AC/DC240V Input Redundant Power Supply

700W/750W Redundant Power Supplies with PMBus	
Total Output Power	■ 700W: 100 - 140Vac ■ 750W: 200 - 240Vac ■ 750W: 200 - 240Vdc (for CCC only)
Dimension (W x H x L)	■ 54.5 x 40.25 x 320 mm
Input	■ 100 - 140Vac / 8 - 6A / 50-60Hz ■ 200 - 240Vac / 4.5 - 3.8A / 50-60Hz ■ 200 - 240Vdc / 4.5 - 3.8A (CCC Only)

Power Configurations	■ ACPI / APM Power Management
PC Health Monitoring	
CPU	■ Monitors for CPU Cores, Chipset Voltages, Memory. ■ 4+1 Phase-switching voltage regulator
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

+12V	■ Max: 58A / Min: 0.5A (100 - 140Vac) ■ Max: 62A / Min: 0.5A (200 - 240Vac) ■ Max: 62A / Min: 0.5A (200 - 240Vdc) (CB/CCC Only)
+5V sb	■ Max: 3A / Min: 0A
Output Type	■ Gold Finger Connector Mating with Molex 45984-4343
Certification	 Platinum Certified [Test Report]

Operating Environment

RoHS	■ RoHS Compliant
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	<u>MBD-H12SSW-NTR</u>	1	Super H12SSW-NTR Motherboard
	CSE-116TS-R706WBP5-N10	1	1U Chassis
Backplane	BPN-SAS3-LB16A-N10	1	1U 10-Slot SFF Backplane Supports 10x SAS3/SATA3/NVMe4 Storage Devices with 1x(2x4) + 2x(1x4) + 1x(2x2) Power Connectors, HF, RoHS
Cable	CBL-SAST-1049	1	SLIMLINE SAS (LE) to SLIMLINE SAS, INT, 30.2CM,85 OHM,R
Cable	CBL-SAST-1221D-85	2	Slimline x8 (LE) to Slimline x8 (STR),20CM,85 OHM
Cable	CBL-SAST-1222-85	2	Slimline X8 (LE) to Slimline X8 (STR), 22CM,85 OHM
Cable	CBL-SAST-1222-100	1	Slimline x8 (LE) to 2x Slimline x4 (STR),22/22CM,100 OHM
Cable	CBL-SAST-1236-100	1	Slimline x8 (LE) to 2x Slimline x4 (STR),36/36CM,100 OH
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	1	1U Passive CPU Heat Sink for AMD Socket SP3 Processors
Power Supply	PWS-706P-1R	2	1U 750W redundant power width 54.5mm(Platinum),HF,RoHS/REACH,PBF
Power Distributor	PDB-PT112-2424	1	SC112 24PIN REDUNDANT PWS DISTRIBUTOR
FAN	FAN-0141L4	6	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan
Drive Tray(s)	MCP-220-00167-0B	10	Gen 3 2.5-inch Tool-less NVMe drive tray (clip design),RoHS
Rail Set	MCP-290-00063-0N	1set	Rail set, quick/quick, default for 1U 17.2"W for SC113/SC116,RoHS/REACH

Optional Parts List

	Part Number	Qty	Description
Storage Controller card & cable	AOC-S3008L-L8e & 1x CBL-SAST-1295-100	-	Std LP, 8 WIO L ports, 12Gb/s per port- Gen3, 122HDD, HBA MINI SAS HD-SlimSAS x4,12G,INT,95CM,30AWG
	AOC-S3008L-L8i & 1x CBL-SAST-1295-100	-	Std LP, 8 WIO L ports, 12Gb/s per port- Gen3, 63HDD, RAID 0,1,1E
	AOC-S3108L-H8iR & 1x CBL-SAST-1295-100	-	MINI SAS HD-SlimSAS x4,12G,INT,95CM,30AWG
	AOC-S3108L-H8iR & 1x CBL-SAST-1295-100	-	Std LP, 8 WIO L ports, 12Gb/s per port- Gen3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
Cable Management Arm	MCP-290-00085-0N	-	Supermicro Cable Management Arm for 1U Chassis
TPM	AOM-TPM-9655V	-	Vertical TPM with Infineon 9655 TCG 1.2
	AOM-TPM-9665V	-	AOM-TPM-9665V using SLB9665 Chipset supporting TPM2.0,RoHS/REACH
SATADOM	SSD-DM128-SMCMVN1	-	SMC SATADOM, 128GB, SATA 6Gb/s, MLC, uSSD, 15nm,HF,RoHS/REACH
	SSD-DM480-SMCMVN1	-	SMC SATADOM,480GB,SATA 6Gb/s,3D TLC,uSSD,HF,RoHS
	SSD-DM064-SMCMVN1	-	SMC SATADOM,64GB,SATA 6Gb/s,MLC,uSSD,15nm,HF,RoHS
	SSD-DM032-SMCMVN1	-	SMC SATADOM,32GB,SATA 6Gb/s,MLC,uSSD,15nm,HF,RoHS
	MEM-IDSAVS4-032G	-	SATA3DOM SL 3SE4 32GB SLC LP Pin8 VCC NH (L17725)
	MEM-IDSAVM8A-128G	-	SATA3DOM SL 3ME3 V2 128GB MLC LP Pin8 VCC NH (S17411)
	MEM-IDSAVM8A-256G	-	SATA3DOM ML 3ME3 V2 256GB MLC LP Pin8 VCC NH (S17411)
	MEM-IDSAVE1-064G	-	SATA3DOM SL 3IE3 V2 64GB iSLC LP Pin8 VCC NH (S17411i)
	MEM-IDSAVS3-032G	-	SATA3DOM SL 3SE 32GB SLC LP No Pin8 Vcc Support (S130710)
	MEM-IDSAVT1-256G	-	IND SATA3DOM SL 3TE7 256GB 3D TLC Pin8VCC Vertical LP
Optional Kit for 10 SATA Drive Support	MCP-220-00147-0B	-	Black gen-3 hot-swap 2.5" Tool-less HDD tray (clip design)

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)