



Integrated Board



Super H12SSL-i

Views: | [Angled View](#) | [Top View](#) |
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Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Key Applications

- Backup storage
- Web or Database Servers
- Compact Network Appliance

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. 8 DIMMs; up to 2TB 3DS ECC DDR4-3200MHz RDIMMLRDIMM
3. 5 PCI-E 4.0 x16 LP slots, 2 PCI-E 4.0 x8 LP slots
4. 2x 1GbE LAN ports, 1 dedicated IPMI LAN port
5. 12 Hot-swap 3.5" SATA3 drive bays,
2 rear Hot-swap 2.5" SATA3 Drive bays
via optional kit
M.2 Interface: 2 PCI-E 4.0 x4
M.2 Form Factor: 2242, 2260, 2280, 22110
M.2 Key: M-Key
6. 6 USB 3.0 ports (4 rear, 2 via header), 1 VGA, 1 COM, ASPEED AST2500 BMC graphics
7. 920W Redundant Platinum Level Power Supplies
(Full redundancy based on configuration and application load)



Product SKUs

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

Motherboard

Super H12SSL-i

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 ■ 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 ■ Broadcom BCM5720 Gigabit Ethernet Controller

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 ■ 8 SATA3 (6 Gbps) ports

LAN ■ 2x 1GbE LAN ports
■ 1 RJ45 Dedicated IPMI LAN port

USB ■ 6 USB 3.0 ports (4 rear, 2 via header)

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

PC Health Monitoring

CPU ■ Monitors for CPU Cores, Chipset Voltages, Memory.
■ 4+1 Phase-sw itching voltage regulator

FAN ■ 3 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

Chassis

Form Factor ■ 2U Rackmount

Model ■ **CSE-LA26TS-R920LPP1**

Dimensions and Weight

Width ■ 17.2" (437mm)

Height ■ 3.5" (89mm)

Depth ■ 25.5" (648mm)

Package ■ 11.4" (H) x 26.7" (W) x 34.5" (D)

Weight ■ Net Weight: 33.5 lbs (15.2 kg)
■ Gross Weight: 60 lbs (27.2 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 ■ 5 PCI-E 4.0 x16 LP slots
■ 2 PCI-E 4.0 x8 LP slots

Drive Bays

Hot-swap ■ 12 Hot-swap 3.5" SATA3 drive bays
■ 2 rear Hot-swap 2.5" SATA3 drive bays via optional kit

Backplane

2U 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

Output Type ■ Backplanes (connector)

Certification



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 - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-H12SSL-i	1	Super H12SSL-i Motherboard
	CSE-LA26TS-R920LPP1	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-PWCD-0160-IS	2	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH
Cable 2	CBL-SAST-1234-100	1	Slimline x4 (STR) to 4x SATA,35CM,SB 50CM,Xover,100 OHM,
Cable 3	CBL-SAST-1261-100	1	Slimline x8 (STR) to 2x Slimline x4 (STR),60/60CM,100 O
Parts	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB w ith Gasket.
Rail Set	MCP-290-00053-0N	1	Rail set, quick/quick, default for 2,3U 17.2";W
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-L8824	1	2U cost effective PDB support up to 1200W.,RoHS
*Cable 3	CBL-0071L	1	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF
*FAN 1	FAN-0181L4	3	80x80x38 mm, 9.4K RPM, Hot-sw appable Middle Cooling Fan
*Drive Tray(s)	MCP-220-00184-0B	12	Black gen-9 tool-less cost-effective 3.5
Software	<u>SFT-OOB-LIC</u> • eStore	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
Rear 2.5" Drive Bay Kit	MCP-220-82616-0N	-	12G 2.5x2 Drive Kit w / Status LED(216B/826B/417B/846X/847B)
TPM	AOM-TPM-9655V	-	Vertical TPM w ith Infineon 9655 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)