

A+ Server 2013S-C0R



Integrated Board



H11SSL-C

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

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

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

Key Features

Cloud and Virtualization needs
Connectivity/Storage
Computer Nodes
Database Processing & Storage
High End Enterprise Server
Hosting & Application delivery

1. Single AMD EPYC™ 7001/7002* Series Processor (*AMD EPYC 7002 series drop-in support requires board revision 2.x)
2. 1TB Registered ECC DDR4 2666MHz SDRAM in 8 DIMMs
2TB Registered ECC DDR4 3200MHz SDRAM in 8 DIMMs (Board revision 2.x required)
3. Expansion slots:
3 PCI-E 3.0 x16 (low profile);
3 PCI-E 3.0 x8 (low profile)
M.2 Interface: PCI-E 3.0 x4 (NVMe based)
M.2 Form Factor: 2280, 22110
M.2 Key: Onboard M-key
Number of M.2: Single
4. Integrated IPMI 2.0 + KVM with dedicated LAN
• **Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management**
5. 2x 1GbE LAN ports via Intel® I210
6. 8 hot-swap 3.5" SAS3/SATA3 Drive Bays (on-board Broadcom 3008 IR mode),
1 M.2 NVMe SSD slot Supported
7. 740W Redundant Platinum Level Power Supplies
(Full redundancy based on configuration and application load)



Specifications

Product SKUs

AS -2013S-C0R ■ A+ Server 2013S-C0R

Motherboard

H11SSL-C

Processor/Chipset

CPU ■ Single AMD EPYC™ 7001/7002* series Processor (*Board revision 2.x required)
 ■ Socket SP3
 ■ Supports CPU TDP 225W / cTDP up to 240W*

Cores ■ Up to 32 Cores (Board revision 1.x + 7001 Processors)
 ■ Up to 64 Cores (Board revision 2.x + 7002 Processors)

Chipset ■ System on Chip (SoC)

System Memory

Memory Capacity ■ 8 DIMM slots
 ■ Supports up to 1TB Registered ECC DDR4 2666MHz SDRAM (7001 Processors)
 ■ Supports up to 2TB Registered ECC DDR4 3200MHz SDRAM (Board revision 2.x required + 7002 Processors)
 ■ 8-channel memory bus

Memory Type ■ DDR4 2666 MHz Registered ECC, 288-pin gold-plated DIMMs
 ■ DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs (Board revision 2.x required + 7002 Processors)

DIMM Sizes ■ 4GB, 8GB, 16GB, 32GB, 64GB, 128GB, 256GB*
 (* Board revision 2.x required + 7002 Processors)

Memory Voltage ■ 1.2V

Error Detection ■ Corrects single-bit errors
 ■ Detects double-bit errors (using ECC memory)

On-Board Devices

SATA/SAS ■ SATA3 (6 Gbps)
 ■ Broadcom 3008 SAS3 (12 Gbps) controller
 ■ IR mode; RAID 0, 1, 10

IPMI ■ Support for Intelligent Platform Management Interface v.2.0
 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
 ■ ASPEED AST2500 BMC

Network Controllers ■ Intel® I210 Controller

VGA ■ ASPEED AST2500 BMC

Expansion Slots

PCI Express ■ 3 PCI-E 3.0 x16 (low profile)
 ■ 3 PCI-E 3.0 x8 (low profile)

Chassis

Form Factor ■ 2U

Model ■ **SC825TQ-R740LPB**

Dimensions

Height ■ 3.5" (89mm)

Width ■ 17.2" (437mm)

Depth ■ 25.5" (647mm)

Weight ■ Net Weight: 35.5 lbs (16.1 kg)
 ■ Gross Weight: 69 lbs (31.2 kg)

Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button

LEDs ■ Power LED
 ■ Hard drive activity LED
 ■ 2x Network activity LEDs
 ■ System Overheat LED / Fan fail LED / UID LED

Drive Bays

Hot-swap ■ 8 hot-swap 3.5" SAS3/SATA3 Drive Bays

Peripheral Drives

DVD-ROM ■ Slim DVD-ROM drive (optional)

Backplane

HDD Backplane ■ Supports 8 SAS3/SATA3 3.5" HDD

System Cooling

Fans ■ 3 heavy-duty PWM fans with optimal fan speed control

Power Supply with Power Distributor

740W Redundant high-efficiency power supply with PMBus

AC Input ■ 100-240 V, 50-60 Hz, 9-3.5 Amp

DC Output ■ 4 Amp @ +5V standby
 ■ 61.7 Amp @ +12V

Certification



Platinum Certified
[Test Report]

PC Health Monitoring

CPU ■ Monitors CPU Core Voltages, +12V, +3.3V, +5V, +5V standby, 3.3V standby, VBAT
 ■ CPU switching voltage regulator

FAN ■ Fan status tachometer monitoring
 ■ Status monitor for speed control
 ■ Pulse Width Modulated (PWM) fan connectors

Temperature ■ Monitoring for CPU and chassis environment
 ■ CPU Thermal Trip Support
 ■ Thermal control for 8x Fan connectors
 ■ I²C Temperature Sensing Logic

M.2	<ul style="list-style-type: none"> ■ Interface: PCI-E 3.0 x4 (NVMe based) ■ Form Factor: 2280, 22110 ■ Key: Onboard M-key ■ Number of M.2: Single
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Input / Output

SATA/SAS	<ul style="list-style-type: none"> ■ 8 SATA3 (6 Gbps) / ■ 8 SAS3 ports via Broadcom 3008
LAN	<ul style="list-style-type: none"> ■ 2x 1GbE LAN ports ■ 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> ■ 3 USB 3.0 ports ■ 2 USB 2.0 ports
VGA	<ul style="list-style-type: none"> ■ 1 VGA port
Others	<ul style="list-style-type: none"> ■ 1 COM port (rear) ■ 2 SATA DOM power connector ■ TPM 1.2 header

System BIOS

BIOS Type	<ul style="list-style-type: none"> ■ AMI 128Mb SPI Flash EEPROM
BIOS Features	<ul style="list-style-type: none"> ■ Plug and Play (PnP) ■ DMI 2.3 ■ PCI 2.2 ■ ACPI 5.1 ■ USB Keyboard Support ■ SMBIOS 3.1.1

LED	<ul style="list-style-type: none"> ■ CPU / System Overheat LED
Other Features	<ul style="list-style-type: none"> ■ Chassis Intrusion Detection ■ Chassis Intrusion Header

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> ■ RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> ■ Operating Temperature: 10°C to 35°C (50°F to 95°F) ■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°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	MBD-H11SSL-C	1	Super H11SSL-C Motherboard
Chassis	CSE-825TQ-R740LPB	1	Black 2U SC825TQ LP chassis w/ Red. 740W PWS
HD Backplane	BPN-SAS3-825TQ	1	8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD
Cable	CBL-SAST-0948	2	MINI SAS HD-4 SATA,12G,INT,60CM,60CM SB,30AWG
Heat Sink	SNK-P0063P	1	2U Passive CPU Heat Sink for AMD Socket SP3 Processors
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management

Optional Parts List

	Part Number	Qty	Description
Network Card(s)	AOC-S40G-i2Q	-	Standard LP 2-port 40GbE controller, based on Intel Fortville XL710
	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350
	AOC-STG-b4S	-	Standard LP, 4x 10GbE SFP+, PCI-E x8, Broadcom BCM57840S
	AOC-STGN-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES
	AOC-STGN-i1S	-	Standard LP, 1x 10GbE SFP+, PCI-E x8, Intel 82599EN
	AOC-STG-i2T	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel X540
	AOC-STG-i2	-	Standard LP, 2x 10GbE CX4, PCI-E x8, Intel 82598EB
Hot-swap 3.5" to 2.5" Hard Disk Drive Tray	MCP-220-00043-0N	-	STD Black hot-swap screw type 3.5"-to-2.5" converter drive tray
	MCP-220-00118-0B	-	STD Black hot-swap tool-less 3.5"-to-2.5" converter drive tray.
Cable Management Arm	MCP-290-00073-0N	-	Supermicro Cable Management Arm for 2U, 3U and 4U chassis (Extendable Length: 70mm to 830mm)
Storage Controller card & cable	AOC-S3008L-L8e & 2x CBL-SAST-0699	-	Std LP, 8 WIO L ports, 12Gb/s per port- Gen3, 122HDD, HBA MINI SAS HD-4 SATA, 12G,INT,75/75/90/90CM,75CM SB,28/30AWG
	AOC-S3008L-L8i & 2x CBL-SAST-0699	-	Std LP, 8 WIO L ports, 12Gb/s per port- Gen3, 63HDD, RAID 0,1,1E
	AOC-S3108L-H8iR & 2x CBL-SAST-0699	-	MINI SAS HD-4 SATA, 12G,INT,75/75/90/90CM,75CM SB,28/30AWG
		-	Std LP, 8 WIO L ports, 12Gb/s per port- Gen3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60 MINI SAS HD-4 SATA, 12G,INT,75/75/90/90CM,75CM SB,28/30AWG
CacheVault	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108, Supercap mounting bracket for PCI-E location
	BTR-TFM8G-LSICVM02 & MCP-240-00127-0N & MCP-220-00043-0N	-	CacheVault for Broadcom 3108, Supercap mounting bracket for 2.5" HDD location, STD Black hot-swap screw type 3.5"-to-2.5" converter drive tray
Adapter Bracket	MCP-120-82503-0N	-	Cable arm adapter for SC825LP,213LP (MCP-290-00073-0N required),HF,RoHS/REACH,PBF
SATA DVD Kit	MCP-220-81502-0N	-	Slim SATA DVD mounting kit for SC213,219,813,815,818,819,825,828,829,836,842
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)