



Integrated Board



**H11SSL-C**

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

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

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1. Single AMD EPYC™ 7001/7002\* Series Processor (\*AMD EPYC 7002 series drop-in support requires board revision 2.x)

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  2. 1TB Registered ECC DDR4 2666MHz SDRAM in 8 DIMMs  
2TB Registered ECC DDR4 3200MHz SDRAM in 8 DIMMs (Board revision 2.x required)

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  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

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  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. 2x 1GbE LAN ports via Intel® I210

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  6. 8 hot-swap 3.5" SAS3/SATA3 Drive Bays (on-board Broadcom 3008 IR mode),  
1 M.2 NVMe SSD slot Supported

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  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, 240-pin gold-plated DIMMs
  - DDR4 3200 MHz Registered ECC, 240-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)
- M.2**
  - Interface: PCI-E 3.0 x4 (NVMe based)
  - Form Factor: 2280, 22110
  - Key: Onboard M-key
  - Number of M.2: Single

## 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
  - PC Temperature Sensing Logic
- LED**
  - CPU / System Overheat LED

## Input / Output

- SATA/SAS**
- 8 SATA3 (6 Gbps) /
  - 8 SAS3 ports via Broadcom 3008

- LAN**
- 2x 1GbE LAN ports
  - 1 RJ45 Dedicated IPMI LAN port

- USB**
- 3 USB 3.0 ports
  - 2 USB 2.0 ports

- VGA**
- 1 VGA port

- Others**
- 1 COM port (rear)
  - 2 SATA DOM power connector
  - TPM 1.2 header

## System BIOS

- BIOS Type**
- AMI 128Mb SPI Flash EEPROM

- BIOS Features**
- Plug and Play (PnP)
  - DMI 2.3
  - PCI 2.2
  - ACPI 5.1
  - USB Keyboard Support
  - SMBIOS 3.1.1

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- Other Features**
- Chassis Intrusion Detection
  - Chassis Intrusion Header
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## Operating Environment / Compliance

- RoHS**
- RoHS Compliant

- Environmental Spec.**
- 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)
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# Parts List

## Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard</b>	MBD-H11SSL-C	1	Super H11SSL-C Motherboard
<b>Chassis</b>	CSE-825TQ-R740LPB	1	Black 2U SC825TQ LP chassis w / Red. 740W PWS
<b>HD Backplane</b>	BPN-SAS3-825TQ	1	8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD
<b>Cable</b>	CBL-SAST-0948	2	MINI SAS HD-4 SATA, 12G,INT,60CM,60CM SB,30AWG
<b>Heat Sink</b>	SNK-P0063P	1	2U Passive CPU Heat Sink for AMD Socket SP3 Processors
<b>Software</b>	SFT-OOB-LIC	1	License key for enabling OOB BIOS management

## Optional Parts List

	Part Number	Qty	Description
<b>Network Card(s)</b>	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
<b>Hot-swap 3.5" to 2.5" Hard Disk Drive Tray</b>	MCP-220-00043-0N	-	STD Black hot-sw ap screw type 3.5"-to-2.5" converter drive tray
	MCP-220-00118-0B	-	STD Black hot-sw ap tool-less 3.5"-to-2.5" converter drive tray.
<b>Cable Management Arm</b>	MCP-290-00073-0N	-	Supermicro Cable Management Arm for 2U, 3U and 4U chassis (Extendable Length: 70mm to 830mm)
<b>Storage Controller card &amp; cable</b>	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 MINI SAS HD-4 SATA, 12G,INT,75/75/90/90CM,75CM SB,28/30AWG
	AOC-S3108L-H8iR & 2x CBL-SAST-0699	-	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
<b>CacheVault</b>	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-sw ap screw type 3.5"-to-2.5" converter drive tray
<b>Adapter Bracket</b>	MCP-120-82503-0N	-	Cable arm adapter for SC825LP,213LP (MCP-290-00073-0N required),HF,RoHS/REACH,PBF
<b>SATA DVD Kit</b>	MCP-220-81502-0N	-	Slim SATA DVD mounting kit for SC213,219,813,815,818,819,825,828,829,836,842
<b>TPM</b>	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
<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)