

# AS-1013S



## Key Features

- Web Hosting, VM
- Cloud Computing
- Connectivity/Storage Computer Nodes


1. Single AMD EPYC™ 7000-Series Processor
2. Up to 1TB Registered ECC DDR4 2666MHz SDRAM in 8 DIMMs
3. 1 PCI-E 3.0 x16 (FH/HL) slot
4. Integrated IPMI 2.0 + KVM with dedicated LAN
5. 2x 1GbE LAN ports via Intel® I210
6. 4 hot-swap 3.5" SATA3 drive bays or 4 SAS3 ports (SAS Add-on Card is optional), 1 M.2 NVMe SSD Supported
7. 400W Redundant Platinum Level Power Supplies  
*(Full redundancy based on configuration and application load)*



## Specifications

<b>Motherboard</b>		<b>Dimensions</b>	
<b>H11SSL-i</b>		<b>Height</b>	■ 1.7" (43mm)
<b>Processor/Chipset</b>		<b>Width</b>	■ 17.2" (437mm)
<b>CPU</b>	<ul style="list-style-type: none"> <li>■ Single AMD EPYC™ 7000-series Processor (up to 200W)</li> <li>■ Socket SP3</li> </ul>	<b>Depth</b>	■ 19.85" (503mm)
<b>Cores</b>	■ Up to 32 Cores	<b>Weight</b>	<ul style="list-style-type: none"> <li>■ Net Weight: 20 lbs (9.1 kg)</li> <li>■ Gross Weight: 33 lbs (15.0 kg)</li> </ul>
<b>Chipset</b>	■ System on Chip (SoC)	<b>Front Panel</b>	
<b>System Memory</b>		<b>Buttons</b>	<ul style="list-style-type: none"> <li>■ Power On/Off button</li> <li>■ System Reset button</li> </ul>
<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>■ 8 DIMM slots</li> <li>■ Supports up to 1TB Registered ECC DDR4 2666MHz SDRAM</li> <li>■ 8-channel memory bus</li> </ul>	<b>LEDs</b>	<ul style="list-style-type: none"> <li>■ Power LED</li> <li>■ Hard drive activity LED</li> <li>■ 2x Network activity LEDs</li> <li>■ System Overheat LED / Fan fail LED / UID LED</li> </ul>
<b>Memory Type</b>	■ DDR4 2666 MHz Registered ECC, 240-pin gold-plated DIMMs	<b>Drive Bays</b>	
<b>DIMM Sizes</b>	■ 4GB, 8GB, 16GB, 32GB, 64GB, 128GB	<b>Hot-swap</b>	■ 4 hot-swap 3.5" SATA3 drive bays
<b>Memory Voltage</b>	■ 1.2V	<b>Peripheral Drives</b>	
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>■ Corrects single-bit errors</li> <li>■ Detects double-bit errors (using ECC memory)</li> </ul>	<b>Optional</b>	<ul style="list-style-type: none"> <li>■ Optional 2.5" drive adapter</li> <li>■ Optional slim DVD drive</li> </ul>
<b>On-Board Devices</b>		<b>Backplane</b>	
<b>SATA</b>	<ul style="list-style-type: none"> <li>■ SATA3 (6 Gbps)</li> <li>■ Support for Intelligent Platform Management Interface v.2.0</li> </ul>	<b>HDD Backplane</b>	■ Supports 4 SATA3 3.5" HDD
<b>IPMI</b>	<ul style="list-style-type: none"> <li>■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>■ ASPEED AST2500 BMC</li> </ul>	<b>System Cooling</b>	
<b>Network Controllers</b>	■ Intel® I210 Controller	<b>Fans</b>	■ 4x 40x28mm 4-pin PWM Cooling Fans
<b>VGA</b>	■ ASPEED AST2500 BMC	<b>Air Shroud</b>	■ 1 Air Shroud
<b>Expansion Slots</b>		<b>AC/DC240V Input Redundant Power Supplies</b>	
<b>1U</b>	■ 1 PCI-E 3.0 x16 (FH/HL) slot	400W 1U Redundant Power Supplies with PMbus	
		<b>Total Output Power</b>	■ 400W

<b>M.2</b>	<ul style="list-style-type: none"> <li>Interface: PCI-E 3.0 x4</li> <li>Form factor: 2280, 22110</li> </ul>
<b>Input / Output</b>	
<b>SATA</b>	<ul style="list-style-type: none"> <li>4 SATA3 (6 Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x 1GbE LAN ports</li> <li>1 RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>5 USB 3.0 ports (2 rear + 2 via header + 1 Type A)</li> <li>4 USB 2.0 ports (2 rear, 2 via header)</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>1 VGA port</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>1 COM port (rear)</li> <li>2 SATA DOM power connector</li> <li>TPM 1.2 header</li> </ul>
<b>System BIOS</b>	
<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>AMI 128Mb SPI Flash EEPROM</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>DMI 2.3</li> <li>PCI 2.2</li> <li>ACPI 5.1</li> <li>USB Keyboard Support</li> <li>SMBIOS 3.1.1</li> </ul>

<b>Dimension (W x H x L)</b>	<ul style="list-style-type: none"> <li>54.5 x 40 x 220 mm</li> </ul>
<b>Input</b>	<ul style="list-style-type: none"> <li>100 - 240Vac / 6.0 - 3.0A / 50-60Hz</li> <li>200 - 240Vdc / 3.4 - 3.2A (CCC Only)</li> </ul>
<b>+12V</b>	<ul style="list-style-type: none"> <li>Max: 33A / Min: 0.5A</li> </ul>
<b>+5V sb</b>	<ul style="list-style-type: none"> <li>Max: 3A / Min: 0A</li> </ul>
<b>Output Type</b>	<ul style="list-style-type: none"> <li>Gold Finger Connector Mating with Molex 45984-4343</li> </ul>
<b>Certification</b>	 <b>UL/cUL/CB/CE/BSMI/CCC Platinum Level Certified</b>

<b>PC Health Monitoring</b>	
<b>CPU</b>	<ul style="list-style-type: none"> <li>Monitors CPU Core Voltages, +12V, +3.3V, +5V, +5V standby, 3.3V standby, VBAT</li> <li>CPU switching voltage regulator</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Up to 8-fan status tachometer monitoring</li> <li>Up to eight 4-pin fan headers</li> <li>Status monitor for speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU Thermal Trip Support</li> <li>Thermal control for 8x Fan connectors</li> <li>I<sup>2</sup>C Temperature Sensing Logic</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>CPU / System Overheat LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>Chassis Intrusion Detection</li> <li>Chassis Intrusion Header</li> </ul>

<b>Operating Environment / Compliance</b>	
<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>