

# WS-5039A



## Integrated Board



Super X11SAE

## Key Features

### • High Performance, Versatile Features & I/O Access

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen. Core™ i7/i5/i3 series
2. Intel® C236 chipset
3. Up to 64GB Unbuffered ECC/non-ECC UDIMM DDR4 2133MHz; 4x DIMM slots
4. 2 PCI-E 3.0 x16 (x16/NA or x8/x8), 2 PCI-E 3.0 x1 (in x4), 2 PCI 32-bit slots
5. I/O Ports: 1 DVI, 1 VGA, 1 HDMI, 1 display port, triple display capable, ALC1150 HD Audio, 2 COM, 2 GbE LAN, 2 USB 3.0 + 2 USB 2.0 (front)
6. 4x 3.5" internal HDD bays  
90° rotatable HDD cage design  
4x 2.5" internal SATA HDD (opt.)
7. 500W High Efficiency Power Supply

Available Colors:

Black



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

## Specifications

### Motherboard

#### Super X11SAE

### Processor/Cache

- CPU**
- Single Socket H4 (LGA 1151) supports:
  - Intel® Xeon® processor E3-1200 v5,
  - CPU TDP up to 80W

### System Memory

- Memory Capacity**
- 4x 288-pin DDR4 DIMM slots
  - Up to 64GB DDR4 ECC UDIMM
- Memory Type**
- 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs
- DIMM Sizes**
- 16GB, 8GB, 4GB
- Memory Voltage**
- 1.2 V
- Error Detection**
- Corrects single-bit errors
  - Detects double-bit errors (using ECC memory)

### On-Board Devices

- Chipset**
- Intel® C236 chipset
- SATA**
- SATA3 (6Gbps) via C236 controller
  - RAID 0, 1, 5, 10 support
- Network Controllers**
- Intel I210-AT + Intel PHY i219LM Ethernet Controllers
  - Virtual Machine Device Queues reduce I/O overhead
  - Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
- Graphics**
- ASPEED AST2400 BMC
- Audio**
- ALC 888S HD Audio

### Dimensions and Weight

- Height**
- 16.7" (424mm)
- Width**
- 7.6" (193mm)
- Depth**
- 20.68" (525.3mm)
- Gross Weight**
- 40 lbs (18.1 kg)
- Available Colors**
- Black

### Front Panel

- Buttons**
- Power On/Off button
- LEDs**
- Power LED
  - Hard drive activity LED
  - Network activity LED
  - System Information LED
- Ports**
- 2x front USB 3.0 Ports
  - 2x front USB 2.0 Ports
  - 2x front HD/AC97 Audio Ports

### Drive Bays

- Internal**
- 4x 3.5" Internal fixed drive bays
- Peripheral**
- 2x 5.25" peripheral device bays

### System Cooling

- Fans**
- 1x 12cm rear exhaust fan with Optimal Fan Speed Control
  - Optimized cooling technology for Whisper-Quiet Operation (21dB)

## Input / Output

|                             |   |
|-----------------------------|---|
| <b>SATA</b>                 | <ul style="list-style-type: none"><li>8x SATA3 (6Gbps) ports from Intel® C236; RAID 0, 1, 5, 10</li></ul>   |
| <b>LAN</b>                  | <ul style="list-style-type: none"><li>2x RJ45 Gigabit Ethernet LAN ports</li></ul>  |
| <b>USB</b>                  | <ul style="list-style-type: none"><li>6x USB 3.0 ports (2 rear + 4 via headers)</li><li>8x USB 2.0 ports (2 rear + 6 via headers)</li><li>2x USB 3.1 (rear)</li></ul> |
| <b>Audio</b>                | <ul style="list-style-type: none"><li>7.1 HD Jacks</li></ul>  |
| <b>Display*</b>             | <ul style="list-style-type: none"><li>1x VGA, 1x HDMI, 1x DVI-D, 1x Display port (Triple Display)</li></ul>   |
| <b>Serial Port / Header</b> | <ul style="list-style-type: none"><li>2x COM ports (headers)</li></ul>  |

## Expansion Slots

|                    |   |
|--------------------|---|
| <b>PCI-Express</b> | <ul style="list-style-type: none"><li>2 PCI-E 3.0 x16 slots - Function as: x16/NA or x8/x8</li><li>2 PCI-E 3.0 x1 (in x4) slots</li></ul> |
| <b>PCI</b>         | <ul style="list-style-type: none"><li>2 PCI 32-bit slots</li></ul>  |

## System BIOS

|                      |   |
|----------------------|---|
| <b>BIOS Type</b>     | <ul style="list-style-type: none"><li>128Mb SPI Flash EEPROM with AMI® BIOS</li></ul>   |
| <b>BIOS Features</b> | <ul style="list-style-type: none"><li>Plug and Play (PnP)</li><li>APM 1.2</li><li>DMI 2.3</li><li>ACPI 1.0 / 2.0</li><li>USB Keyboard support</li><li>SMBIOS 2.3</li><li>UEFI</li></ul> |

## Power Supply

|                             |  |
|-----------------------------|--|
| 500W AC power supply w/ PFC |  |
| <b>AC Voltage</b>           | <ul style="list-style-type: none"><li>100 - 240V, 50-60Hz, 7-3.5 Amp</li></ul> |
| <b>+5V</b>                  | <ul style="list-style-type: none"><li>20 Amp</li></ul>                         |
| <b>+5V standby</b>          | <ul style="list-style-type: none"><li>3 Amp</li></ul>                          |
| <b>+12V1</b>                | <ul style="list-style-type: none"><li>17 Amp</li></ul>                         |
| <b>+12V2</b>                | <ul style="list-style-type: none"><li>17 Amp</li></ul>                         |
| <b>+12V3</b>                | <ul style="list-style-type: none"><li>17 Amp</li></ul>                         |
| <b>+12V4</b>                | <ul style="list-style-type: none"><li>18 Amp</li></ul>                         |
| <b>-12V</b>                 | <ul style="list-style-type: none"><li>0.5 Amp</li></ul>                        |
| <b>+3.3V</b>                | <ul style="list-style-type: none"><li>15 Amp</li></ul>                         |

## Certification



**Bronze Certified**

## PC Health Monitoring

|                    |  |
|--------------------|--|
| <b>CPU</b>         | <ul style="list-style-type: none"><li>Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages.</li><li>6-Phase-switching voltage regulator</li></ul> |
| <b>FAN</b>         | <ul style="list-style-type: none"><li>Low noise fan speed control</li></ul>  |
| <b>Temperature</b> | <ul style="list-style-type: none"><li>Monitoring for CPU and chassis environment</li><li>Thermal Control for 8x fan connectors</li><li>PECI</li></ul>  |

## Operating Environment / Compliance

|                            |  |
|----------------------------|--|
| <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> |