

# IS-5019R



## Integrated Board



Super X11SSH-F

## Key Features

- Cloud, Web hosting, File/Print
- High flexibility, Communication
- Mainstream, Light load VM

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen. Core™ i3 series
2. Intel® C236 chipset
3. 4x 3.5" Hot-swap SATA3 bays w/ RAID
4. Up to 64GB Unbuffered ECC UDIMM DDR4 2133MHz; 4x DIMM slots
5. 1 PCI-E 3.0 x8 (in x16) AOC slot
6. 2x GbE ports with Intel® i210-AT
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. I/O ports: 1x VGA, 2x COM, 2x USB 3.0 (front/rear), USB 2.0
9. 350W Platinum Level Power Supply

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

## Specifications

### Motherboard

#### Super X11SSH-F

### Processor/Cache

#### CPU

- Single Socket H4 (LGA 1151) supports:
- Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen Core™ i3
- 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

#### IPMI

- Support for Intelligent Platform Management Interface v.2.0
- IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
- ASPEED AST2400 BMC

#### Network Controllers

- Dual Intel® I210-AT Gigabit Ethernet LAN ports
- Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output

#### Video

- ASPEED AST2400 BMC

### Dimensions and Weight

#### Height

- 1.7" (43mm)

#### Width

- 17.2" (437mm)

#### Depth

- 19.8" (503mm)

#### Package

- 8.5" (H) x 24" (W) x 29.5" (D)

#### Weight

- Gross Weight: 30.4 lbs (13.8 kg)
- Net Weight: 17.6 lbs (8 kg)

#### Available Colors

- Black

### Front Panel

#### Buttons

- Power On/Off button
- System Reset button

#### LEDs

- Power LED
- Hard drive activity LED
- 2x Network activity LEDs
- System Overheat LED

### Expansion Slots

#### PCI-Express

- 1x PCI-E 3.0 x8 (in x16) AOC slot
- 1x M.2 connector

### Drive Bays

#### Hot-swap

- 4x 3.5" Hot-swap SATA3 drive bays

### Peripheral Drives

#### Optional

- 2x 2.5" Fixed drives internal

### Backplane

SAS/SATA HDD Backplane  
(SAS support requires optional SAS controller)

### Input / Output

<b>SATA</b>	■ 4x SATA3 (6Gbps) ports
<b>LAN</b>	■ 2x RJ45 Gigabit Ethernet LAN ports ■ 1x RJ45 Dedicated IPMI LAN port
<b>USB</b>	■ 2x USB 3.0 ports (front/rear) ■ 2x USB 2.0 ports
<b>Video</b>	■ 1x VGA port
<b>Serial Port / Header</b>	■ 2x COM ports (1 rear, 1 header)
<b>SuperDOM</b>	■ 2x <u>SuperDOM</u> (Disk on Module) ports with built-in power

### PC Health Monitoring

<b>Voltage</b>	■ Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.
<b>FAN</b>	■ Total of 4 fan headers supporting up to 4 fans ■ 4 fans with tachometer status monitoring ■ Status monitor for speed control ■ Status monitor for on/off control ■ Low noise fan speed control ■ Pulse Width Modulated (PWM) fan connectors
<b>Temperature</b>	■ Monitoring for CPU and chassis environment ■ CPU thermal trip support ■ I <sup>2</sup> C temperature sensing logic ■ Thermal Monitor 2 (TM2) support ■ PECI
<b>LED</b>	■ CPU / System Overheat LED ■ Suspend static indicator LED ■ UID/Remote UID
<b>Other Features</b>	■ Chassis intrusion detection ■ Chassis intrusion header ■ Chipkill support ■ RoHS, Halogen Free

### System Cooling

<b>Fans</b>	■ 4x 40x28mm 4-pin PWM Cooling Fans
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### Power Supply

350W AC power supply w/ PFC	
<b>AC Voltage</b>	■ 100-240 V, 50-60 Hz, 4.2-1.8 Amp
<b>+5V</b>	■ Max.: 15 Amp ■ Min.: 0.2 Amp
<b>+5V standby</b>	■ Max.: 3 Amp ■ Min.: 0 Amp
<b>+12V</b>	■ Max.: 29 Amp ■ Min.: 0.5 Amp
<b>-12V</b>	■ Max.: 0.2 Amp ■ Min.: 0 Amp
<b>+3.3V</b>	■ Max.: 12 Amp ■ Min.: 0.2 Amp

### Certification



Platinum Level Certified

### System BIOS

<b>BIOS Type</b>	■ 8MB SPI Flash EEPROM with AMI BIOS
<b>BIOS Features</b>	■ DMI 2.3 ■ PCI 2.3 ■ ACPI 1.0 / 2.0 ■ USB Keyboard support ■ SMBIOS 2.3

### Operating Environment / Compliance

<b>RoHS</b>	■ RoHS Compliant
<b>Environmental Spec.</b>	■ 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)