# SuperServer 5019S-TN4

🖶 Print



| Integrated Board |
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|  |
| **Super X11SSV-M4F** |

**Key Applications / Features**

- Virtual Hosted Desktop (VHD)
- Digital Recording System
- Media/Content Streaming Server
- Fast Transcoding for Web Streaming Support Intel Quick Sync Video
- Intel Iris Pro Graphics P580
- Up to 18 AVC streams or 8 HEVC streams at 1080p 30FPS

1. Single Socket FCBGA 1440 supports Intel® Xeon® processor E3-1585 v5, 4-Core, 8 Threads, 65W
2. Intel® C236 chipset
3. 1x 3.5" or 4x 2.5" HDD
4. Up to 32GB Unbuffered ECC SO-DIMM DDR4 2133MHz; 2 DIMM slots
5. 1 PCI-E 3.0 x16, 1 Mini-PCIe with mSATA, 1 M.2 (M Key, 2242/2280)
6. 4 GbE w/ Intel i219LM, I210AT, I350AM2; shared IPMI 2.0 LAN (Intel I210AT)
7. 1 VGA, 1 COM, 4 USB 3.0 (rear)
8. 200W Low noise AC-DC Power Supply with PFC

▸ **Drivers & Utilities** ▸ **BIOS** ▸ **IPMI** ▸ **Tested Memory** ▸ **Tested M.2 List** ▸ **Manuals** ▸ **OS Certification Matrix** ▸ **Drive Options**

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

## Specifications ⌃

### Product SKUs

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| --- | --- |
| **SYS-5019S-TN4** | ▪ SuperServer 5019S-TN4 (**Black**) |

### Motherboard

**Super X11SSV-M4F**

### Processor

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| --- | --- |
| CPU | ▪ Single Socket FCBGA 1440 supports:<br>▪ Intel® Xeon® processor E3-1585 v5, 4-Core, 8 Threads, 65W |

### System Memory

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| --- | --- |
| Memory Capacity | ▪ 2x DDR4 SO-DIMM slots<br>▪ Up to 32GB Unbuffered ECC SO-DIMM, DDR4-2133MHz, in 2 DIMM slots |
| Memory Type | ▪ 2133/1866/1600MHz ECC DDR4 SODIMMs |
| DIMM Sizes | ▪ 16GB, 8GB, 4GB |
| Memory Voltage | ▪ 1.2 V |

### On-Board Devices

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| --- | --- |
| Chipset | ▪ Intel® C236 chipset |
| SATA | ▪ SATA3 (6Gbps) via C236 controller<br>▪ RAID 0, 1, 5, 10 support |
| IPMI | ▪ Support for Intelligent Platform Management Interface v.2.0<br>▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support<br>▪ ASPEED AST2400 BMC |
| Network Controllers | ▪ Single GbE LAN with Intel® I219LM controller<br>▪ Single GbE LAN with Intel® I210-AT; IPMI shared LAN with I210-AT<br>▪ Dual GbE LAN with Intel® I350-AM2<br>▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output |
| Video | ▪ ASPEED AST2400 BMC |

### Input / Output

| | |
| --- | --- |
| SATA | ▪ 4 SATA3 (6Gbps) ports |
| LAN | ▪ 4 RJ45 Gigabit Ethernet LAN ports<br>▪ 1 RJ45 Shared IPMI LAN port |
| USB | ▪ 4 USB 3.0 ports (rear) |
| Video | ▪ 1 VGA port (DVI-A) |
| Serial Port / Header | ▪ 1 COM port in RJ45 socket |
| TPM | ▪ 1 TPM Header |

### PC Health Monitoring

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| Voltage | ▪ Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages. |
| FAN | ▪ Total of 3 fan headers supporting up to 3 fans<br>▪ 3 fans with tachometer status monitoring<br>▪ Status monitor for speed control<br>▪ Status monitor for on/off control<br>▪ Low noise fan speed control<br>▪ Pulse Width Modulated (PWM) fan connectors |
| Temperature | ▪ Monitoring for CPU and chassis environment<br>▪ CPU thermal trip support<br>▪ I²C temperature sensing logic<br>▪ Thermal Monitor 2 (TM2) support<br>▪ PECI |
| LED | ▪ System Information LED<br>▪ Suspend static indicator LED<br>▪ UID/Remote UID |
| Other Features | ▪ Chassis intrusion detection<br>▪ Chassis intrusion header<br>▪ RoHS, Halogen Free |

### Chassis

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| Form Factor | ▪ 1U Rackmount |
| Model | ▪ CSE-504-203B |

### Dimensions and Weight

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| --- | --- |
| Height | ▪ 1.7" (43mm) |
| Width | ▪ 17.2" (432mm) |
| Depth | ▪ 9.8" (249mm) |
| Package | ▪ 8.5" (H) x 24" (W) x 29.5" (D) |
| Weight | ▪ Net Weight: 8 lbs (3.62 kg)<br>▪ Gross Weight: 12 lbs (5.44 kg) |
| Available Colors | ▪ Black |

### Front Panel

| | |
| --- | --- |
| Buttons | ▪ Power On/Off button<br>▪ System Reset button |
| LEDs | ▪ Power LED<br>▪ Hard drive activity LED<br>▪ 4 Network activity LEDs<br>▪ System Information LED |

### Expansion Slots

| | |
| --- | --- |
| PCI-Express | ▪ 1 PCI-E 3.0 x16 slot<br>▪ 1 Mini PCI-E with mSATA support<br>▪ M.2 Interface: PCIe 3.0 x4 and SATA<br>M.2 Form Factor: 2242, 2280 |

### Drive Bays

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| Internal | ▪ 1x 3.5" or 4x 2.5" drive bays |

### System Cooling

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| Fans | ▪ 3x 40x28mm 4-pin PWM Cooling Fans |

### Power Supply

200W Low Noise AC-DC power supply with PFC

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| AC Voltage | ▪ 100 - 240V, 50-60Hz, 2.6 Amp Max |
| +5V | ▪ 8.0 Amp (max.) |
| +5V standby | ▪ 2.0 Amp (max.) |
| +12V | ▪ 16 Amp (max.) |
| -12V | ▪ 0.5 Amp (max.) |
| +3.3V | ▪ 8.0 Amp (max.) |
| Certification | ▪ Gold Certified |

### System BIOS

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| --- | --- |
| BIOS Type | ▪ 8MB SPI Flash EEPROM with AMI BIOS |
| BIOS Features | ▪ DMI 2.3<br>▪ PCI 2.3<br>▪ ACPI 1.0 / 2.0<br>▪ USB Keyboard support<br>▪ SMBIOS 2.3 |

### Operating Environment / Compliance

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| --- | --- |
| RoHS | ▪ RoHS Compliant |
| Environmental Spec. | ▪ Operating Temperature:<br>10°C to 35°C (50°F to 95°F)<br>▪ Non-operating Temperature:<br>-40°C to 70°C (-40°F to 158°F)<br>▪ Operating Relative Humidity:<br>8% to 90% (non-condensing)<br>▪ Non-operating Relative Humidity:<br>5% to 95% (non-condensing) |

## Parts List ⌃

### Parts List - (Items Included)

| | Part Number | Qty | Description |
| --- | --- | --- | --- |
| Motherboard / Chassis | MBD-X11SSV-M4F | 1 | Super X11SSV-M4F Motherboard |
| | CSE-504-203B | 1 | 1U Chassis |
| Cable 1 | CBL-0082L | 1 | Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG |
| Cable 2 | CBL-SAST-0538 | 2 | SATA,INT,ROUND,ST-RA,29CM,30AWG |
| FAN 1 | FAN-0154L4 | 3 | 40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH |
| Parts | MCP-120-00063-0N | 1 | Riser card bracket for slot-7 in SC504 |
| Drive Tray(s) | MCP-220-00051-0N | 2 | Single 2.5 |
| Parts | MCP-260-00066-0B | 1 | 1U I/O shield for X9SPV-M4 use in SC510, SC505, SC504 with EMI Gasket,RoHS/REACH,PBF |
| Fan Holder | MCP-320-81302-0B | 3 | Optional fan tray for one 40x28mm fan in SC813T/SC813LT-single PWS (Fan tray only) |
| Riser Card | RSC-RR1U-E16 | 1 | RSC-RR1U-E16 with PIC-E x16 output |

### Optional Parts List

| | Part Number | Qty | Description |
| --- | --- | --- | --- |
| Rack Mount Kit | MCP-290-50404-0N | 1 | Rack Mount Kit for CSE-504-203B |

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