

SuperServer 5018A-TN4



Integrated Board



A1SAi-2750F

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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


Space-efficient, compact design
Fast to build and deploy
Gateway, file-sharing, security

1. Intel® Atom processor C2750, SoC, FCBGA 1283, 20W 8-Core
2. Intel® System-on-Chip Design
3. 2x 3.5" Fixed SATA3 HDD bays or 4x 2.5" SATA2 HDD optional*
4. 1x PCI-E 2.0 x8 slot**
5. Up to 64GB DDR3 1600MHz ECC SO-DIMM in 4 DIMM slots
6. 4x GbE via Intel® C2000 SoC i354 (MACs)
7. DOM power connector
8. 200W Low-noise power supply w/ PFC



Specifications

| | |
|----------------------------|---|
| Product SKUs | |
| SYS-5018A-TN4 | ■ SuperServer 5018A-TN4 (Black) |
| Motherboard | |
| Super A1SAi-2750F | |
| Processor/Cache | |
| CPU | <ul style="list-style-type: none"> ■ Intel® Atom® Processor C2750 ■ CPU TDP 20W (8-Core) ■ FCBGA 1283 ■ System-on-Chip |
| System Memory | |
| Memory Capacity | <ul style="list-style-type: none"> ■ 4x 204-pin DDR3 SO-DIMM slots ■ Supports up to 64GB DDR3 ECC memory |
| Memory Type | ■ 1600/1333MHz ECC DDR3 SDRAM 72-bit, 204-pin gold-plated DIMMs |
| DIMM Sizes | ■ 8GB, 4GB, 2GB |
| Memory Voltage | ■ 1.5 V, 1.35 V |
| Error Detection | <ul style="list-style-type: none"> ■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory) |
| On-Board Devices | |
| SATA | ■ C2000 SoC SATA3 (6Gbps), SATA2 (3Gbps) |
| Network Controllers | <ul style="list-style-type: none"> ■ C2000 Soc I354 Quad GbE Controllers (MACs) ■ Virtual Machine Device Queues reduce I/O overhead ■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output |
| IPMI | <ul style="list-style-type: none"> ■ 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 |
| Graphics | ■ BMC integrated ASPEED AST2400 |
| USB 3.0 | ■ Renesas uPD720201 |
| Input / Output | |
| Serial ATA | <ul style="list-style-type: none"> ■ 2x SATA3 (6Gbps) ports ■ 4x SATA2 (3Gbps) ports |
| LAN | <ul style="list-style-type: none"> ■ 4x RJ45 Gigabit Ethernet LAN ports ■ 1x RJ45 Dedicated IPMI LAN port |
| USB | <ul style="list-style-type: none"> ■ 4x USB 3.0 ports (2 rear, 1 Type A, 1 via header) ■ 2x USB 2.0 ports (2 rear) |
| Serial Port | ■ 2x Fast UART 16550 Serial Port (1 rear, 1 via header) |
| DOM | ■ 1x SATA DOM (Disk on Module) power connector |
| VGA | ■ 1x VGA Port |
| Others | <ul style="list-style-type: none"> ■ TPM 1.2 header ■ 4-pin 12V DC power input or 24-pin ATX power input |

| | |
|--|--|
| Chassis | |
| Form Factor | ■ 1U Rackmount |
| Model | ■ CSE-504-203B |
| Dimensions and Weight | |
| Height | ■ 1.7" (43mm) |
| Width | ■ 17.2" (437mm) |
| Depth | ■ 9.8" (249mm) |
| Weight | <ul style="list-style-type: none"> ■ Net Weight: 8 lbs (3.62 kg) ■ Gross Weight: 12 lbs (5.44 kg) |
| Available Colors | ■ Black |
| Front Panel | |
| Buttons | <ul style="list-style-type: none"> ■ Power On/Off button ■ System Reset button |
| LEDs | <ul style="list-style-type: none"> ■ Power LED ■ Hard drive activity LED ■ 2x Network activity LEDs ■ System Overheat LED ■ Information LED (temp., status) |
| Expansion Slots | |
| PCI-E | ■ 1x PCI-E 2.0 x8 slot via riser** |
| Drive Bays | |
| HDD | ■ 2x 3.5" or 4x 2.5" internal SATA2 hard drive bays (optional) * |
| Power Supply | |
| 200W Low Noise AC-DC power supply with PFC | |
| 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 | |
| BIOS Type | ■ 64Mb SPI Flash EEPROM with AMI UEFI BIOS |
| BIOS Features | <ul style="list-style-type: none"> ■ Plug and Play (PnP) ■ DMI 2.3 ■ ACPI 5.0 ■ USB Keyboard support ■ SMBIOS 2.7.1 ■ UEFI |
| 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 |
|------------------------------|------------------|-----|---|
| Motherboard / Chassis | MBD-A1SAi-2750F | 1 | Super A1SAi-2750F Motherboard |
| | CSE-504-203B | 1 | 1U Chassis |
| Cable 1 | CBL-0061L | 1 | SATA,INT,FLAT,31.5CM,26AWG |
| Parts | MCP-120-00063-0N | 1 | Riser card bracket for slot-7 in SC504 |
| Label | LBL-0997 | 1 | Fan Warning Label 30x11mm,RoHS/REACH |
| Manual | MNL-1569-QRG | 1 | SYS-5018A-TN4 ,QRG,HF,RoHS/REACH,PBF |
| Riser Card | RSC-RR1U-E8 | 1 | RSC-RR1U-E8 |
| Fan | FAN-0100L4 | 1 | 40X28MM 4-PIN PWM FAN FOR SC510 & SC511 |
| Power Supply | PWS-203-1H | 1 | 1U 200W Multi-output 80Plus Gold PWS |

Optional Parts List

| | Part Number | Qty | Description |
|--------------------|------------------|-----|--|
| HDD Bracket | MCP-220-00044-0N | - | Dual 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U |
| HDD Bracket | MCP-220-00051-0N | - | Single 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U |