

# SuperServer 5018A-TN4



## Integrated Board



A1SAi-2750F

## 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



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

## Specifications

### Product SKUs

- SYS-5018A-TN4    ■ SuperServer 5018A-TN4 (Black)

### Motherboard

Super A1SAi-2750F

### Processor/Cache

- CPU    ■ Intel® Atom™ Processor C2750  
 ■ CPU TDP 20W (8-Core)  
 ■ FCBGA 1283  
 ■ System-on-Chip

### System Memory

- Memory Capacity    ■ 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

### 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    ■ Net Weight: 8 lbs (3.62 kg)  
           ■ Gross Weight: 12 lbs (5.44 kg)  
 Available Colors    ■ Black

### Front Panel

- Buttons    ■ Power On/Off button  
           ■ System Reset button  
           ■ Power LED

<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>8GB, 4GB, 2GB</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>
<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>LEDs</b>	<ul style="list-style-type: none"> <li>Hard drive activity LED</li> <li>2x Network activity LEDs</li> <li>System Overheat LED</li> <li>Information LED (temp., status)</li> </ul>
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### On-Board Devices

<b>SATA</b>	<ul style="list-style-type: none"> <li>C2000 SoC SATA3 (6Gbps), SATA2 (3Gbps)</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>C2000 Soc I354 Quad GbE Controllers (MACs)</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED AST2400 BMC</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>BMC integrated ASPEED AST2400</li> </ul>
<b>USB 3.0</b>	<ul style="list-style-type: none"> <li>Renesas uPD720201</li> </ul>

<b>Expansion Slots</b>	
<b>PCI-E</b>	<ul style="list-style-type: none"> <li>1x PCI-E 2.0 x8 slot via riser**</li> </ul>

<b>Drive Bays</b>	
<b>HDD</b>	<ul style="list-style-type: none"> <li>2x 3.5" or 4x 2.5" internal SATA2 hard drive bays (optional) *</li> </ul>

<b>Power Supply</b>	
200W Low Noise AC-DC power supply with PFC	
<b>AC Voltage</b>	<ul style="list-style-type: none"> <li>100 - 240V, 50-60Hz, 2.6 Amp Max</li> </ul>
<b>+5V</b>	<ul style="list-style-type: none"> <li>8.0 Amp (max.)</li> </ul>
<b>+5V standby</b>	<ul style="list-style-type: none"> <li>2.0 Amp (max.)</li> </ul>
<b>+12V</b>	<ul style="list-style-type: none"> <li>16 Amp (max.)</li> </ul>
<b>-12V</b>	<ul style="list-style-type: none"> <li>0.5 Amp (max.)</li> </ul>
<b>+3.3V</b>	<ul style="list-style-type: none"> <li>8.0 Amp (max.)</li> </ul>

**Certification**



**Gold Certified**

### Input / Output

<b>Serial ATA</b>	<ul style="list-style-type: none"> <li>2x SATA3 (6Gbps) ports</li> <li>4x SATA2 (3Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>4x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>4x USB 3.0 ports (2 rear, 1 Type A, 1 via header)</li> <li>2x USB 2.0 ports (2 rear)</li> </ul>
<b>Serial Port</b>	<ul style="list-style-type: none"> <li>2x Fast UART 16550 Serial Port (1 rear, 1 via header)</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>1x SATA DOM (Disk on Module) power connector</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>1x VGA Port</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>TPM 1.2 header</li> <li>4-pin 12V DC power input or 24-pin ATX power input</li> </ul>

<b>System BIOS</b>	
<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>64Mb SPI Flash EEPROM with AMI UEFI BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>DMI 2.3</li> <li>ACPI 5.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.7.1</li> <li>UEFI</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>

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-A1SAi-2750F	1	Super A1SAi-2750F Motherboard
	CSE-504-203B	1	1U Chassis
<b>Cable 1</b>	CBL-0061L	1	35CM end to end, SATA CABLE, PB FREE, 26AWG, flat
<b>Parts</b>	MCP-120-00063-0N	1	Riser card bracket for slot-7 in SC504
<b>Manual</b>	MNL-1569-QRG	1	SYS-5018A-TN4 ,QRG,HF,RoHS/REACH,PBF
<b>Riser Card</b>	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4.00)
<b>Fan</b>	FAN-0100L4	1	40X28MM 4-PIN PWM FAN FOR SC510 & SC511
<b>Power Supply</b>	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS

### Optional Parts List

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