

# SuperServer 5018A-TN4



### 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

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#) [Manuals](#) [OS Certification Matrix](#) [Quick-References Guide](#) [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

**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

**DIMM Sizes** 8GB, 4GB, 2GB

**Memory Voltage** 1.5 V, 1.35 V

**Error Detection** Corrects single-bit errors  
Detects double-bit errors (using ECC memory)

### On-Board Devices

**SATA** C2000 SoC SATA3 (6Gbps), SATA2 (3Gbps)

**Network Controllers** 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** 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** 2x SATA3 (6Gbps) ports  
4x SATA2 (3Gbps) ports

**LAN** 4x RJ45 Gigabit Ethernet LAN ports  
1x RJ45 Dedicated IPMI LAN port

**USB** 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** 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** 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

**LEDs** 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** 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)

## Parts List ^

### 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	SATA,INT,FLAT,31.5CM,26AWG
<b>Parts</b>	MCP-120-00063-0N	1	Riser card bracket for slot-7 in SC504
<b>Label</b>	LBL-0997	1	Fan Warning Label 30x11mm,RoHS/REACH
<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
<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

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