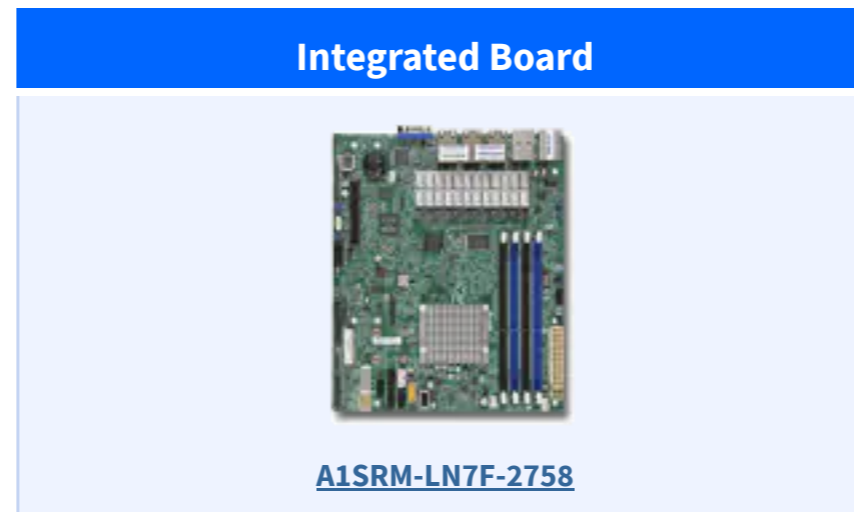


# SuperServer 5018A-TN7B



## Key Features

- Embedded Network Security**
  - Atom 8-Core Rangeley**
  - 7 LAN w/ 3 pair bypass**
  - Up to 64GB DDR3 1600MHz ECC or non-ECC UDIMM**
1. Intel® Atom processor C2758, SoC, FCBGA 1283, 20W 8-Core
  2. 7x GbE LAN including 6 ports LAN bypass (SW programmable) ports w/ SoC I354, I350-AM2 and I210-AT
  3. 1x 3.5" Fixed drive bay or 4x 2.5" drive bays w/ optional bracket
  4. 1x PCI-E 2.0 x4 (in x8) slot
  5. Up to 64GB DDR3 1600MHz ECC or non-ECC UDIMM
  6. IPMI 2.0 with shared LAN
  7. 2x 4cm counter-rotating PWM fans; Support up to 3x system fans
  8. 200W Multi-output power supply
  9. 7-Year product life

Views: | [Angled View](#) | [Top View](#) | [Front View](#) | [Rear View](#) |

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- [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-TN7B** SuperServer 5018A-TN7B (Black)

### Motherboard

**Super A1SRM-LN7F-2758**

### Processor/Cache

**CPU** Intel® Atom® Processor C2758  
CPU TDP 20W (8-Core)  
FCBGA 1283  
System-on-Chip

### System Memory

**Memory Capacity** 4x 240-pin DDR3 UDIMM slots  
Supports up to 64GB DDR3 ECC or non-ECC memory

**Memory Type** 1600/1333MHz ECC or non-ECC DDR3 SDRAM, 240-pin gold-plated DIMMs, x8 width only

**DIMM Sizes** 16GB, 8GB, 4GB, 2GB

**Memory Voltage** 1.5 V, 1.35 V

### On-Board Devices

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

**Network Controllers** Quad GbE LAN w/ Intel C2000 SoC i354 - 2 pairs LAN bypass  
Single GbE LAN w/ Intel i210-AT  
Dual GbE LAN w/ Intel Ethernet controller i350-AM2 - 1 pair LAN bypass

**IPMI** Support for Intelligent Platform Management Interface v.2.0  
IPMI 2.0 with virtual media over LAN and KVM-over-LAN support  
Aspeed AST 2400 BMC

**Graphics** BMC integrated ASPEED AST2400

**USB 2.0** C2000 SoC

### Input / Output

**Serial ATA** 2x SATA3 (6Gbps) ports  
4x SATA2 (3Gbps) ports

**LAN** 7x RJ45 Gigabit Ethernet LAN ports with shared LAN IPMI 2.0

**USB** 7x USB 2.0 ports (4 rear, 1 Type A, 2 via header)

**Serial Port** 2x Fast UART 16550 Serial Port (1 rear with RJ45, 1 via header)

**DOM** 1x [SATA DOM](#) (Disk on Module) power connector  
1x [SuperDOM](#) Supermicro SATA DOM with built-in power connector

**VGA** 1x VGA Port

**Others** TPM 1.2 header

### Management

**Software** [SuperDoctor® 5](#)  
Watch Dog  
NMI

**Power Configurations** ACPI / ACPM Power Management  
Main Switch Override Mechanism  
Power-on mode for AC power recovery

### PC Health Monitoring

**Voltage** Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +5V Standby, VBAT, Memory Voltages.

**FAN** Total of 3x 4-pin fan headers  
3x 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

**Temperature** Monitoring for CPU and chassis environment  
CPU thermal trip support

**LED** System Overheat LED

**Other Features** Intel® QuickAssist Technology  
3x pairs software programmable GbE LAN Bypass ports

### Chassis

**Form Factor** 1U Rackmount

**Model** [CSE-510-203B](#)

### Dimensions and Weight

**Height** 1.7" (43mm)

**Width** 17.2" (437mm)

**Depth** 11.3" (287mm)

**Package** 6.1" (H) x 25.4" (W) x 19.8" (D)

**Weight** Net Weight: 8.45 lbs (3.83 kg)  
Gross Weight: 12.55 lbs (5.69 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 x4 (in x8) slot

### Drive Bays

**HDD** 1x 3.5" or 4x 2.5" (opt. bracket required) internal drive bays

### System Cooling

**Fans** 2x 4cm counter rotating PWM fans, support up to three system fans

### 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** 128Mb 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 40°C (50°F to 104°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-A1SRM-LN7F-2758	1	Super A1SRM-LN7F-2758 Motherboard
	CSE-510-203B	1	1U Chassis
<b>Cable 1</b>	CBL-0061L	1	SATA,INT,FLAT,31.5CM,26AWG
<b>Parts</b>	MCP-120-00032-0N	1	optional riser card bracket for all 1U chassis
	MCP-260-00085-0B	1	1U I/O Shield for A1SRM-LN7F on SC510 with EMI Gasket,RoHS/REACH
<b>Riser Card</b>	RSC-RR1U-E8	1	RSC-RR1U-E8
<b>Power Supply</b>	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS
<b>Riser card bracket</b>	MCP-120-00032-0N	1	Riser card bracket
<b>I/O Shield</b>	MCP-260-00085-0B	1	1U I/O Shield for A1SRM-LN7F on SC510 with EMI Gasket,RoHS/REACH

### 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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