

SuperServer 5018A-TN7B



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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

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-TN7B	<ul style="list-style-type: none"> ▪ SuperServer 5018A-TN7B (Black)
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Motherboard

Super A1SRM-LN7F-2758

Processor/Cache

CPU	<ul style="list-style-type: none"> ▪ Intel® Atom™ Processor C2758 ▪ CPU TDP 20W (8-Core) ▪ FCBGA 1283 ▪ System-on-Chip
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System Memory

Memory Capacity	<ul style="list-style-type: none"> ▪ 4x 240-pin DDR3 UDIMM slots ▪ Supports up to 64GB DDR3 ECC or non-ECC memory
Memory Type	<ul style="list-style-type: none"> ▪ 1600/1333MHz ECC or non-ECC DDR3 SDRAM, 240-pin gold-plated DIMMs, x8 width only

Chassis

Form Factor	<ul style="list-style-type: none"> ▪ 1U Rackmount
Model	<ul style="list-style-type: none"> ▪ <u>CSE-510-203B</u>


Dimensions and Weight

Height	<ul style="list-style-type: none"> ▪ 1.7" (43mm)
Width	<ul style="list-style-type: none"> ▪ 17.2" (437mm)
Depth	<ul style="list-style-type: none"> ▪ 11.3" (287mm)
Package	<ul style="list-style-type: none"> ▪ 6.1" (H) x 25.4" (W) x 19.8" (D)
Weight	<ul style="list-style-type: none"> ▪ Net Weight: 8.45 lbs (3.83 kg) ▪ Gross Weight: 12.55 lbs (5.69 kg)
Available Colors	<ul style="list-style-type: none"> ▪ 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

DIMM Sizes	<ul style="list-style-type: none"> 16GB, 8GB, 4GB, 2GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V, 1.35 V
On-Board Devices	
SATA	<ul style="list-style-type: none"> SoC SATA3 (6Gbps), SATA2 (3Gbps)
Network Controllers	<ul style="list-style-type: none"> 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	<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 AST 2400 BMC
Graphics	<ul style="list-style-type: none"> BMC integrated ASPEED AST2400
USB 2.0	<ul style="list-style-type: none"> C2000 SoC
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"> 7x RJ45 Gigabit Ethernet LAN ports with shared LAN IPMI 2.0
USB	<ul style="list-style-type: none"> 7x USB 2.0 ports (4 rear, 1 Type A, 2 via header)
Serial Port	<ul style="list-style-type: none"> 2x Fast UART 16550 Serial Port (1 rear with RJ45, 1 via header)
DOM	<ul style="list-style-type: none"> 1x <u>SATA DOM</u> (Disk on Module) power connector 1x <u>SuperDOM</u> Supermicro SATA DOM with built-in power connector
VGA	<ul style="list-style-type: none"> 1x VGA Port
Others	<ul style="list-style-type: none"> TPM 1.2 header
Management	
Software	<ul style="list-style-type: none"> <u>SuperDoctor® 5</u> Watch Dog NMI
Power Configurations	<ul style="list-style-type: none"> ACPI / ACPM Power Management Main Switch Override Mechanism Power-on mode for AC power recovery
PC Health Monitoring	
Voltage	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +5V Standby, VBAT, Memory Voltages.
FAN	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU thermal trip support
LED	<ul style="list-style-type: none"> System Overheat LED
Other Features	<ul style="list-style-type: none"> Intel® QuickAssist Technology 3x pairs software programmable GbE LAN Bypass ports

	<ul style="list-style-type: none"> System Overheat LED Information LED (temp., status)
Expansion Slots	
PCI-E	<ul style="list-style-type: none"> 1x PCI-E 2.0 x4 (in x8) slot
Drive Bays	
HDD	<ul style="list-style-type: none"> 1x 3.5" or 4x 2.5" (opt. bracket required) internal drive bays
System Cooling	
Fans	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 100 - 240V, 50-60Hz, 2.6 Amp Max
+5V	<ul style="list-style-type: none"> 8.0 Amp (max.)
+5V standby	<ul style="list-style-type: none"> 2.0 Amp (max.)
+12V	<ul style="list-style-type: none"> 16 Amp (max.)
-12V	<ul style="list-style-type: none"> 0.5 Amp (max.)
+3.3V	<ul style="list-style-type: none"> 8.0 Amp (max.)
Certification	 Gold Certified
System BIOS	
BIOS Type	<ul style="list-style-type: none"> 128Mb 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	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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
Motherboard / Chassis	MBD-A1SRM-LN7F-2758	1	Super A1SRM-LN7F-2758 Motherboard
	CSE-510-203B	1	1U Chassis
Cable 1	CBL-0061L	1	35CM end to end, SATA CABLE, PB FREE, 26AWG, flat
Parts	MCP-260-00085-0B	1	1U I/O Shield for A1SRM-LN7F on SC510 with EMI Gasket,RoHS/REACH
Parts	MCP-120-00032-0N	1	optional riser card bracket for all 1U chassis
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4.00)
Power Supply	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS
Riser card bracket	MCP-120-00032-0N	1	Riser card bracket
I/O Shield	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
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