

# SuperServer 5018A-MHN4



### Key Features

**Atom Rangeley Solution with Embedded long life support**  
**Space-efficient, compact design**  
**Fast to build and deploy**  
**Gateway, file-sharing, security**

1. Intel® Atom processor C2758, SoC, FCBGA 1283, 20W 8-Core
2. Intel® System-on-Chip Design
3. 4x 3.5" SATA HDD Bays
4. 1x PCI-E 2.0 x8 slot
5. Up to 64GB DDR3 1600MHz ECC or non-ECC UDIMM in 4 DIMM slots
6. Quad GbE ports, IPMI w/ dedicated LAN
7. DOM power connector
8. 200W Low-noise power supply w/ PFC
9. Support Intel® QuickAssist Acceleration Technology

### Available Colors:

Black

- [Drivers & Utilities](#)
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- [Tested Memory](#)
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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-MHN4** SuperServer 5018A-MHN4 (**Black**)

### Motherboard

**Super A1SRM-2758F**

### 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 slot  
 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** C2000 SoC 1354 Quad GbE Controller (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 AST 2400 BMC

**USB 2.0** C2000 SoC

**Video** BMC integrated ASPEED AST2400

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

**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

### Chassis

**Form Factor** 1U Rackmount

**Model** **CSE-813MTQ-202CB**

### Dimensions and Weight

**Height** 1.7" (43mm)

**Width** 17.2" (437mm)

**Depth** 19.8" (503mm)

**Weight** Net Weight: 8 lbs (3.62 kg)  
 Gross Weight: 31 lbs (14.1 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

### Expansion Slots

**PCI-E** 1x PCI-E 2.0 x8 slot via riser

### Drive Bays

**HDD** 4x 3.5" Hot-swap SATA2 hard drive bays

### Power Supply

200W Low Noise AC-DC power supply with PFC

**AC Voltage** 100 - 240V, 50-60Hz, 3-1.5 Amp Max

**+5V** 16.0 Amp

**+5V standby** 2.0 Amp

**+12V** 15.0 Amp

**-12V** 0.8 Amp

**+3.3V** 17.0 Amp

### 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 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-A1SRM-2758F	1	Super A1SRM-2758F Motherboard
	CSE-813MTQ-202CB	1	1U Chassis
<b>Backplane</b>	BPN-SAS-815TQ	1	4-port 1U TQ backplane (W/ enclosure management), support up to 4x 3.5-inch SAS/SATA HDD
<b>Cable 1</b>	CBL-0180L-01	1	SATA,INT,ROUND,SET OF 4,ST-RA 70/59/48/38CM,26AWG
<b>Manual</b>	MNL-1579-QRG	1	CSE-813MTQ-202CB, A1SRM-2758F
<b>Riser Card</b>	RSC-RR1U-E8	1	RSC-RR1U-E8
<b>Power Supply</b>	PWS-351-1H	1	1U 350W MULTI OUTPUT 80PLUS GOLD PWS

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