

# SuperServer 5018A-MHN4



Available Colors:

Black



## 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

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-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

### 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

Memory Voltage	<ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>
<b>On-Board Devices</b>	
SATA	<ul style="list-style-type: none"> <li>SoC SATA3 (6Gbps), SATA2 (3Gbps)</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>C2000 SoC I354 Quad GbE Controller (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>
IPMI	<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 AST 2400 BMC</li> </ul>
USB 2.0	<ul style="list-style-type: none"> <li>C2000 SoC</li> </ul>
Video	<ul style="list-style-type: none"> <li>BMC integrated ASPEED AST2400</li> </ul>
<b>Input / Output</b>	
Serial ATA	<ul style="list-style-type: none"> <li>2x SATA3 (6Gbps) ports</li> <li>4x SATA2 (3Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>4x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>7x USB 2.0 ports (4 rear, 1 Type A, 2 via header)</li> </ul>
Serial Port	<ul style="list-style-type: none"> <li>2x Fast UART 16550 Serial Port (1 rear, 1 via header)</li> </ul>
DOM	<ul style="list-style-type: none"> <li>1x SATA DOM (Disk on Module) power connector</li> </ul>
VGA	<ul style="list-style-type: none"> <li>1x VGA Port</li> </ul>
Others	<ul style="list-style-type: none"> <li>TPM 1.2 header</li> </ul>

PCI-E	<ul style="list-style-type: none"> <li>1x PCI-E 2.0 x8 slot via riser</li> </ul>
<b>Drive Bays</b>	
HDD	<ul style="list-style-type: none"> <li>4x 3.5" Hot-swap SATA2 hard drive bays</li> </ul>
<b>Power Supply</b>	
200W Low Noise AC-DC power supply with PFC	
AC Voltage	<ul style="list-style-type: none"> <li>100 - 240V, 50-60Hz, 3-1.5 Amp Max</li> </ul>
+5V	<ul style="list-style-type: none"> <li>16.0 Amp</li> </ul>
+5V standby	<ul style="list-style-type: none"> <li>2.0 Amp</li> </ul>
+12V	<ul style="list-style-type: none"> <li>15.0 Amp</li> </ul>
-12V	<ul style="list-style-type: none"> <li>0.8 Amp</li> </ul>
+3.3V	<ul style="list-style-type: none"> <li>17.0 Amp</li> </ul>
<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI UEFI BIOS</li> </ul>
BIOS Features	<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>
<b>Operating Environment / Compliance</b>	
RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<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

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-A1SRM-2758F	1	Super A1SRM-2758F Motherboard
	CSE-813MTQ-202CB	1	1U Chassis
Backplane	BPN-SAS-815TQ	1	Sup 4x SAS/SATA;SATA con
Cable 1	CBL-0180L-01	1	SET OF 4 SATA 70/59/48/38CM ROUND S-RA, 26AWG
Manual	MNL-1579-QRG	1	CSE-813MTQ-202CB, A1SRM-2758F
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4.00)
Power Supply	PWS-202-1H	1	200W,1U W/ STANDARD HARNESS OUTPUT LC