

# SuperChassis 505-203B



## Key Features

1. 9.8" depth small form factor 1U, 200W Gold level power supply
2. Optimized for Mini-ITX (6.75" x 6.75") Motherboard
3. Front I/O Ports
4. 1x 3.5" Internal Drive Bay with 1x Half-height, Half-length PCI
5. OR 2x 3.5" Internal Drive Bay
6. OR 2x 2.5" Internal Drive Bay with 1x Full-height, Half-length PCI
7. OR 4x 2.5" Internal Drive Bay
8. Power Switch, Reset Button and 5x LED Indicators

Note: Image above may show a varied configuration or optional parts, Please refer to parts list for standard parts included.

## Specifications

### Product SKUs

- CSE-505-203B** ■ SuperChassis 505-203B (Black)

### Form Factor

9.8"-Depth Mini 1U chassis support for maximum motherboard size - 6.75" x 6.75"

### Processor Support

Single Processor Support

### Dimensions

- Height** ■ 1.7" (43mm)  
**Width** ■ 17.2" (437mm)  
**Depth** ■ 9.8" (249mm)  
**Packaging** ■ 25.8" (W) x 6.1" (H) x 18.3" (L)  
**Gross Weight** ■ 10 lbs (4.5kg)  
**Available Colors** ■ Black

### Expansion Slots

- Up to 1x full-height, half-length PCI expansions slot\*  
 \*NOTE: Riser Card Required, See 'Drive Bays' for possible configurations

### Drive Bays

- Internal Bay**
- 1x 3.5" Internal Drive Bay with 1x Half-height, Half-length PCI
  - OR 2x 3.5" Internal Drive Bay
  - OR 2x 2.5" Internal Drive Bay with 1x Full-height, Half-length PCI
  - OR 4x 2.5" Internal Drive Bay
  - Only SAS or enterprise SATA HDD recommended

### Front Panel

- Buttons**
- Power On/Off button
  - System Reset button
- LEDs**
- Power LED
  - Hard drive activity LED
  - 2x Network activity LEDs
  - System Overheat LED
- I/O Ports**
- 1x VGA, IPMI, 4xLANs, 1x COM, 4xUSB, 1xKeyboard/Mouse

### Motherboard (for CSE-505-203B)

- |                                  |                                  |
|----------------------------------|----------------------------------|
| <a href="#">A1SAI-2550F</a>      | <a href="#">A1SAI-2750F</a>      |
| <a href="#">A1SRI-2358F</a>      | <a href="#">A1SRI-2558F</a>      |
| <a href="#">A1SRI-2758F</a>      | <a href="#">A2SAV</a>            |
| <a href="#">A2SAV-L</a>          | <a href="#">X10SBA</a>           |
| <a href="#">X10SBA-L</a>         | <a href="#">X10SDV-12C-TLN4F</a> |
| <a href="#">X10SDV-16C-TLN4F</a> | <a href="#">X10SDV-2C-7TP4F</a>  |
| <a href="#">X10SDV-2C-TLN2F</a>  | <a href="#">X10SDV-4C+-TLN4F</a> |
| <a href="#">X10SDV-4C-7TP4F</a>  | <a href="#">X10SDV-4C-TLN2F</a>  |
| <a href="#">X10SDV-4C-TLN4F</a>  | <a href="#">X10SDV-6C+-TLN4F</a> |
| <a href="#">X10SDV-6C-TLN4F</a>  | <a href="#">X10SDV-7TP4F</a>     |
| <a href="#">X10SDV-7TP8F</a>     | <a href="#">X10SDV-8C+-LN2F</a>  |
| <a href="#">X10SDV-8C-TLN4F</a>  | <a href="#">X10SDV-F</a>         |
| <a href="#">X10SDV-TLN4F</a>     | <a href="#">X10SLV-Q</a>         |
| <a href="#">X11SBA-F</a>         | <a href="#">X11SBA-LN4F</a>      |
| <a href="#">X9SBAA-F</a>         | <a href="#">X9SCAA</a>           |
| <a href="#">X9SCAA-L</a>         | <a href="#">X9SKV-1105</a>       |
| <a href="#">X9SKV-1125</a>       | <a href="#">X9SKV-B915</a>       |
| <a href="#">X9SPV-F-3217UE</a>   | <a href="#">X9SPV-F-3610ME</a>   |
| <a href="#">X9SPV-LN4F-3LE</a>   | <a href="#">X9SPV-LN4F-3QE</a>   |
| <a href="#">X9SPV-M4</a>         | <a href="#">X9SPV-M4-3QE</a>     |
| <a href="#">X9SPV-M4-3UE</a>     |                                  |

### Server(s) for SC505-203B

- |                            |                            |
|----------------------------|----------------------------|
| <a href="#">5018A-FTN4</a> | <a href="#">5018D-FN8T</a> |
| <a href="#">5018D-FN4T</a> |                            |

### Operating Environment (System)

- Operating Temperature Range** ■ 0°C ~ 40°C (32°F ~ 104°F)
- Non-Operating Temperature Range** ■ -40°C ~ 70°C (-4°F ~ 158°F)
- Operating Relative Humidity Range** ■ 8% ~ 90% (non-condensing)
- Non-Operating Relative Humidity Range** ■ 5% - 95% (non-condensing)



### 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

### Regulatory (Power Supply)

**Power  
Supply  
Safety / EMC**

- USA - UL listed, FCC
- Canada - CUL listed
- CCC Certification
- EN 60950/IEC 60950-Compliant
- Europe/CE Mark
- Germany - TUV Certified

# A1SRi-2558F



**Rangeley, Low Power  
Communication  
Intel® QuickAssist Technology**

## Key Features

1. Intel® Atom processor C2558, SoC, FCBGA 1283, 15W 4-Core
2. Up to 64GB DDR3 1600MHz ECC SO-DIMM in 4 DIMM sockets
3. Quad GbE LAN ports
4. IPMI with dedicated LAN
5. 2x SATA3 and 4x SATA2 ports
6. 1x PCI-E 2.0 x8 slot
7. 4x USB 3.0 (2 rear, 1 via header, 1 Type A), 2x USB 2.0 ports (rear)
8. 12V DC or ATX Power input
9. Operating Temperature: 0°C - 60°C
10. 7-Year product life

## Specifications

Product SKUs	
<b>MBD-A1SRi-2558F -O</b>	■ A1SRi-2558F (Retail Pack)
<b>MBD-A1SRi-2558F -B</b>	■ A1SRi-2558F (Bulk Pack)
Physical Stats	
<b>Form Factor</b>	■ Mini-ITX
<b>Dimensions</b>	■ 6.75" x 6.75" (17.145cm x 17.145cm)
Processor/Cache	
<b>CPU</b>	<ul style="list-style-type: none"> <li>■ Intel® Atom™ Processor C2558</li> <li>■ CPU TDP 15W (4-Core)</li> <li>■ FCBGA 1283</li> <li>■ System-on-Chip</li> </ul>
System Memory	
<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>■ 4x 204-pin DDR3 SO-DIMM socket</li> <li>■ Supports up to 64GB DDR3 ECC Un-Buffered memory</li> </ul>
<b>Memory Type</b>	■ 1600/1333MHz ECC DDR3 SDRAM, 204-pin gold-plated DIMMs
<b>DIMM Sizes</b>	■ 16GB, 8GB, 4GB, 2GB
<b>Memory Voltage</b>	■ 1.5 V, 1.35 V
On-Board Devices	
<b>SATA</b>	<ul style="list-style-type: none"> <li>■ SoC SATA3 (6Gbps), SATA2 (3Gbps)</li> <li>■ C2000 SoC I354 Quad GbE Controller (MACs)</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>■ Virtual Machine Device Queues reduce I/O overhead</li> <li>■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
<b>IPMI</b>	<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>
<b>USB 3.0</b>	■ Renesas uPD720201
<b>Video</b>	■ BMC integrated Aspeed AST2400

Chassis (Optimized for A1SRi-2558F)	
<b>1U Chassis:</b>	<ul style="list-style-type: none"> <li>■ <a href="#">SC504-203B</a></li> <li>■ <a href="#">SC505-203B</a></li> </ul>
<b>Mid/Mini Tower Chassis:</b>	■ <a href="#">SC721TQ-250B</a>
<b>Mini-ITX Chassis:</b>	<ul style="list-style-type: none"> <li>■ <a href="#">SC101i</a></li> <li>■ <a href="#">SC101S</a></li> </ul>
Expansion Slots	
<b>PCI-Express</b>	■ 1x PCI-E 2.0 x8 slot
System BIOS	
<b>BIOS Type</b>	■ 64Mb SPI Flash EEPROM with AMI UEFI BIOS
<b>BIOS Features</b>	<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>
Management	
<b>Software</b>	<ul style="list-style-type: none"> <li>■ <a href="#">SuperDoctor® 5</a></li> <li>■ Watch Dog</li> <li>■ NMI</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>■ ACPI / ACPM Power Management</li> <li>■ Main Switch Override Mechanism</li> <li>■ Power-on mode for AC power recovery</li> </ul>
PC Health Monitoring	
<b>Voltage</b>	<ul style="list-style-type: none"> <li>■ Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +5V Standby, VBAT, Memory Voltages.</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>■ Total of 3x 4-pin fan headers</li> <li>■ 3x fans with tachometer status monitoring</li> <li>■ Status monitor for speed control</li> <li>■ Status monitor for on/off control</li> <li>■ Low noise fan speed control</li> <li>■ Pulse Width Modulated (PWM) fan connectors</li> </ul>

Input / Output	
<b>Serial ATA</b>	<ul style="list-style-type: none"> <li>■ 2x SATA3 (6Gbps) ports</li> <li>■ 4x SATA2 (3Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>■ 4x RJ45 Gigabit Ethernet LAN ports</li> <li>■ 1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>■ 4x USB 3.0 ports (2 rear, 1 Type A, 1 via header)</li> <li>■ 2x USB 2.0 ports (2 rear)</li> </ul>
<b>Serial Port</b>	<ul style="list-style-type: none"> <li>■ 2x Fast UART 16550 Serial Port (1 rear, 1 via header)</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>■ 1x SATA DOM (Disk on Module) power connector</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>■ 1x VGA Port</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>■ TPM Header</li> </ul>

<b>Temperature</b>	<ul style="list-style-type: none"> <li>■ Monitoring for CPU and chassis environment</li> <li>■ CPU thermal trip support</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>■ System Overheat LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>■ Chassis intrusion detection</li> <li>■ Chassis intrusion header</li> <li>■ 4-pin 12V DC power input or 24-pin ATX Power input</li> </ul>
Operating Temperature	
<ul style="list-style-type: none"> <li>• 0°C to 60°C</li> </ul>	