

# SuperChassis 512L-200B



## Key Features

1. 200W Power Supply
2. 2x 3.5" Internal Drive Bays
3. 1x 10cm Blower Fan
4. 1x I/O Expansion Slot
5. Power Switch, Reset, 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 SKU

CSE-512L-200B ■ SuperChassis 512L-200B (Black)

### Form Factor

14" Mini 1U chassis support for max. motherboard size - 12" x 9.6" ATX

### Processor Support

Supports single Intel® / AMD processor

### Dimensions

<b>Height</b>	1.7" (43mm)
<b>Width</b>	16.8" (426mm)
<b>Depth</b>	14.0" (356mm)
<b>Gross Weight</b>	11 lbs (5kg)
<b>Available Color</b>	Black

### Expansion Slot

1x full-height half-length expansion slot (Riser Card Required)

### Drive Bays

<b>Internal Bay</b>	2x 3.5" internal drive bays SAS or enterprise SATA HDD only recommended
---------------------	--

### Front Panel

<b>Buttons</b>	<ul style="list-style-type: none"> <li>• Power On/Off button</li> <li>• System Reset button</li> </ul>
<b>LEDs</b>	<ul style="list-style-type: none"> <li>• Power LED</li> <li>• Hard drive activity LED</li> <li>• 2x Network activity LEDs</li> <li>• System Overheat LED</li> </ul>

### Motherboard (for CSE-512L-200B)

<a href="#">A1SAM-2550F</a>	<a href="#">A1SAM-2750F</a>
<a href="#">A1SRM-2558F</a>	<a href="#">A1SRM-2758F</a>
<a href="#">A1SRM-LN5F-2358</a>	<a href="#">A1SRM-LN7F-2358</a>
<a href="#">A1SRM-LN7F-2758</a>	<a href="#">H8SML-7</a>
<a href="#">H8SML-7F</a>	<a href="#">H8SML-i</a>
<a href="#">H8SML-iF</a>	<a href="#">X11SSL</a>
<a href="#">X11SSL-F</a>	<a href="#">X11SSM</a>
<a href="#">X11SSM-F</a>	

### System Cooling

<b>Fans</b>	1x 10cm 3,800 RPM PWM blower fan
-------------	----------------------------------

### Operating Environment (System)

<b>Operating Temperature Range</b>	■ 5°C ~ 35°C (41°F ~ 95°F)
<b>Non-Operating Temperature Range</b>	■ -40°C ~ 60°C (-40°F ~ 140°F)
<b>Operating Relative Humidity Range</b>	■ 8% ~ 90% (non-condensing)
<b>Non-Operating Relative Humidity Range</b>	■ 5% - 95% (non-condensing)

### Power Supply

200W Low Noise AC-DC power supply with PFC	
<b>AC Voltage</b>	■ 100 - 240V, 50-60Hz, 3-1.5 Amp Max
<b>+5V</b>	■ 16.0 Amp
<b>+5V standby</b>	■ 2.0 Amp
<b>+12V</b>	■ 15.0 Amp
<b>-12V</b>	■ 0.8 Amp
<b>+3.3V</b>	■ 17.0 Amp

### Regulatory (Power Supply)

<b>Power Supply Safety / EMC</b>	<ul style="list-style-type: none"> <li>• USA - UL listed, FCC</li> <li>• Canada - CUL listed</li> <li>• Germany - TUV Certified</li> <li>• Europe/CE Mark</li> <li>• EN 60950/IEC 60950-Compliant</li> </ul>
----------------------------------	--

# A1SRi-2758F



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

## Key Features

1. Intel® Atom processor C2758, SoC, FCBGA 1283, 20W 8-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-2758F -O</b>	■ A1SRi-2758F (Retail Pack)
<b>MBD-A1SRi-2758F -B</b>	■ A1SRi-2758F (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 C2758</li> <li>■ CPU TDP 20W (8-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-2758F)	
<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>
SuperServer(s) with A1SRi-2758F	
<b>Model(s)</b>	<ul style="list-style-type: none"> <li>■ <a href="#">SYS-5018A-FTN4</a></li> <li>■ <a href="#">SYS-5028A-TN4</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>	