

SuperChassis 505-203B



▶ **Chassis Manual**
▶ **Optimization**

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



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-E
 5. OR 2x 3.5" Internal Drive Bay
 6. OR 2x 2.5" Internal Drive Bay with 1x
Full-height, Half-length PCI (need HDD
bracket)
 7. OR 4x 2.5" Internal Drive Bay(need HDD
bracket)
 8. Power Switch, Reset Button and 5x LED
Indicators
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Specifications

Product SKUs

- **CSE-505-203B** ■ SuperChassis 505-203B

Form Factor

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

Processor Support

- 3rd Generation Intel® Core™ i7/i5/i3, up to 35W

Dimensions

- **Height** ■ 1.7" (43 mm)

- **Width** ■ 17.2" (437 mm)

- **Depth** ■ 9.8" (249 mm)

- **Gross Weight** ■ 10 lbs (4.54 kg)

- **Packaging (W x H x L)** ■ 25.8" (655 mm) x 6.1" (155 mm) x 18.3" (465 mm)

- **Available Color** ■ Black

Expansion Slots

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

Drive Bays

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

Front Panel

- **Buttons** ■ Power On/Off button
■ System Reset Button

- **LEDs** ■ 2 Network Activity LEDs
■ Fan Fail/System Over Heat LED
■ HDD activity LED
■ Power Status LED

- **Ports** ■ 1x VGA, IPMI, 4xLANs, 1x COM, 4xUSB, 1xKeyboard/Mouse

Systems Cooling

- **Fans** ■ 1 x High-efficiency power supply with thermal control fan(s)

Operating Environment (System)

- **Operating Temperature Range** ■ 0°C - 40°C (32°F - 104°F)

- **Non-Operating Temperature Range** ■ -40°C - 70°C (-40°F - 158°F)

- **Operating Relative Humidity Range** ■ 8% - 90% (non-condensing)

- **Non-Operating Relative Humidity Range** ■ 5% - 95% (non-condensing)

Power Supply

1U 200W Multi-output power supply Gold level w /20pin

- **Power Efficiency** ■ 91%

- **Total Output Power and Input** ■ 200W with Input 100 - 240Vac

- **AC Input Frequency** ■ 50-60Hz

- **Dimensions (L x W x H)** ■ 192 x 76 x 40.3 mm

- **Output Type** ■ 20pin ATX

- **-12V** ■ Max: 0.5A / Min: 0A

- **+12V** ■ Max: 16A / Min: 0.1A (100Vac - 240Vac)

- **+5V** ■ Max: 8AA / Min: 0.1A

- **+3.3V** ■ Max: 8A / Min: 0.1A

- **+5Vsb** ■ Max: 2A / Min: 0A

- **+12Vsb** ■ Max: NAA

Certification



■ Gold Certified

Regulatory (Power Supply)

- **Power Supply Safety / EMC** ■ BSMI
■ CCC
■ CE/EMC
■ FCC class B
■ TUV/CB
■ UL/CUL

Components

Standard Parts List

	Part Number	Qty	Description
Cable(S)	CBL-0087	1	CBL,FRONT CNTL,16 TO 16 PIN,Ribbon,50CM
Cable(S)	CBL-0260L	1	US power cord 18AWG 6ft, PBF (default for low watt)
Front Panel	FPB-FP813-D	1	Front control board dual color for SC815,SC813M(C)
Part(s)	MCP-260-00064-0B	1	1U I/O shield for X9/X10 STD Server I/O use in SC510, SC505, SC504 with EMI Gasket,RoHS/REACH,PBF
Part(s)	MCP-290-51001-0N	1	SC510 card retainer
Power Supply & Accessory	PWS-203-1H	1	1U 200W Multi-output 80Plus Gold PWS

Optional Parts List

	Part Number	Qty	Description
Cooling	FAN-0100L4	-	40x28MM 4-PIN PWM Fan
2.5" HDD Bracket	MCP-220-00051-0N	-	2.5" HDD bracket for 1 x 2.5" HDD
2.5" HDD Bracket	MCP-220-00044-0N	-	2.5" HDD bracket for 2 x 2.5" HDD
Fan Kit	MCP-320-81302-0B	-	40x28mm fan holder (may order two for dual fan configuration)
Cable	CBL-0080L	-	1x 4pin to 1x SATA S-RA SATA power extension
IO shield	MCP-260-00065-0B	-	1U I/O shield for X8 STD Server I/O use in SC510, SC505, SC504 with EMI Gasket,RoHS/REACH,PBF
IO shield	MCP-260-00066-0B	-	1U I/O shield for X9SPV-M4 use in SC510, SC505, SC504 with EMI Gasket,RoHS/REACH,PBF
IO shield	MCP-260-00068-0B	-	1U I/O Shield for X9SCAA/-L use on SC510, SC505, SC504 chassis with EMI Gasket,RoHS/REACH,PBF
IO shield	MCP-260-00072-0B	-	1U I/O Shield for X9SKV on SC510, SC505, SC504 with EMI Gasket,RoHS/REACH,PBF
IO shield	MCP-260-00076-0B	-	1U I/O Shield for X10SLV-Q on SC504, 505, 510 with EMI Gasket,RoHS/REACH,PBF
IO shield	MCP-260-00082-0B	-	1U I/O Shield for H9SKV on SC504, 505 with EMI Gasket
Riser Card	RSC-RR1U-E8	-	RSC-RR1U-E8 (Rev 4.00)
Riser Card	RSC-RR1U-E16	-	RSC-RR1U-E16 with PCI-E x16 output
Riser Card Bracket	MCP-120-00063-0N	-	Riser card bracket for slot-7 in SC504
Rail	MCP-290-50404-0N	-	Rail kit

Motherboard (for CSE- 505-203B)

X9SPV-F-3610ME	X9SPV-F-3217UE	X9SPV-LN4F-3LE	X9SPV-LN4F-3QE
X9SPV-M4	● X9SBAA-F	X9SCAA	● X9SCAA-L
X9SPV-M4-3QE	X9SPV-M4-3UE	X9SKV-B915	X10SBA-L
<u>A1SAi-2750F</u>	<u>A1SAi-2550F</u>	<u>X10SBA</u>	X9SKV-1125
<u>A1SRi-2758F</u>	<u>X10SLV-Q</u>	<u>A1SRi-2558F</u>	X9SKV-1105
<u>X10SDV-TLN4F</u>	● <u>X10SDV-F</u>	<u>X11SBA-LN4F</u>	<u>X11SBA-F</u>
● <u>X10SDV-8C-TLN4F</u>	<u>X10SDV-8C+-LN2F</u>	<u>X10SDV-4C-TLN2F</u>	<u>X10SDV-6C-TLN4F</u>
● <u>X10SDV-4C-TLN4F</u>	<u>X10SDV-6C+-TLN4F</u>	<u>X10SDV-12C-TLN4F</u>	<u>X10SDV-7TP8F</u>
<u>X10SDV-7TP4F</u>	<u>X10SDV-16C-TLN4F</u>	<u>X10SDV-4C-7TP4F</u>	<u>A1SRi-2358F</u>
<u>X10SDV-2C-7TP4F</u>	● <u>X10SDV-2C-TLN2F</u>	<u>X10SDV-4C+-TLN4F</u>	<u>A2SAV</u>
<u>A2SAV-L</u>	<u>X11SAA</u>	<u>A2SDi-2C-HLN4F</u>	<u>A2SDi-H-TP4F</u>
<u>A2SDi-H-TF</u>	<u>A2SDi-TP8F</u>	<u>A2SDi-LN4F</u>	<u>A2SDi-4C-HLN4F</u>

<u>A2SDi-12C-HLN4F</u>	<u>A2SDi-16C-HLN4F</u>	<u>A2SDi-8C-HLN4F</u>	<u>A2SDV-8C-TLN5F</u>
<u>A2SDV-16C-TLN5F</u>	<u>A2SDV-12C+-TLN5F</u>	<u>X11SDV-16C-TP8F</u>	<u>X11SDV-12C-TP8F</u>
<u>X11SDV-8C-TP8F</u>	<u>A2SDV-8C-LN8F</u>	<u>A2SDV-4C-LN8F</u>	<u>A2SDV-8C-LN10PF</u>
<u>A2SDV-4C-LN10PF</u>	<u>X11SCL-iF</u>	<u>X10SDV-TP8F</u>	● <u>X10SDV-2C-TP8F</u>
<u>X10SDV-2C-TP4F</u>	<u>X10SDV-4C+-TP4F</u>	<u>X11SSV-M4F</u>	<u>X10SDV-8C-TLN4F+</u>
<u>X10SDV-16C-TLN4F+</u>	<u>X10SDV-12C-TLN4F+</u>		

● = Most optimized Chassis for SuperServer Configuration
■ = Compatible
■ = Global SKU & Compatible
● & ■ = Optimized + Global SKU

Servers (for CSE- 505-203B)

<u>5018A-FTN4</u>	<u>5018D-FN4T</u>	<u>5018D-FN8T</u>	<u>5019A-FTN4</u>
<u>5019D-FN8TP</u>	<u>5019C-FL</u>		
