

RMS110 1U Rack Mount Computer Chassis Specifications

SuperChassis 512F-441B



[▶ Chassis Manual](#)

Key Features

1. 14.5" Mini 1U chassis, supports maximum motherboard sizes: ATX 12" x 10"
2. 1x Full-height & half-length expansion slot
3. 1x 3.5" Fixed Internal Drive Bay
4. 1x Slim DVD ROM (optional)
5. Power Switch, Reset, and LED Indicators
6. 2x Counter-rotating PWM Fans
7. 440W/480W 1U Platinum Level High-Efficiency Power Supply w/PMBus

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

Specifications

Product SKUs

- CSE-512F-441B** • SuperChassis 512F-441B

Form Factor

- 14.5" Mini 1U chassis - supports for maximum motherboard sizes: ATX 12" x 10"

Processor Support

- Dual, single Intel® / AMD processors

Dimensions

- | | |
|------------------------------|---|
| Height | • 1.7" (43 mm) |
| Width | • 17.2" (437 mm) |
| Depth | • 14.5" (369 mm) |
| Gross Weight | • 14 lbs (6.35 kg) |
| Packaging (W x H x L) | • 22" (559 mm) x 6.3" (160 mm) x 20" (508 mm) |
| Available Color | • Black |

Expansion Slots

Motherboard (for CSE- 512F-441B)

- | | |
|---------------------------|------------------------------|
| X9DBL-3F | X9DBL-iF |
| X9SRi | X9SRi-3F |
| X9SCM-IIF | X9SRi-F |
| H8SGL | H8SGL-F |
| H8SCM | H8SCM-F |
| X9DBL-3 | X9DBL-i |
| X9SCL | X9SCL-F |
| X9SCL+-F | X9SCM |
| X9SCM-F | X9SCI-LN4 |
| H8SML-7F | H8SML-7 |
| H8SML-iF | H8SML-i |
| X10SL7-F | X10SLM+-LN4F |
| X10SLM+-F | X10SLH-F |
| X10SLM-F | X10SLL-F |
| X10SLL+-F | X11SSi-LN4F |
| X11SSL-F | X11SSL |
| X11SSM-F | X11SSM |

Systems Cooling

- Fans** • 3 x 4cm counter-rotating PWM fan(s)

Operating Environment (System)

- Operating Temperature Range** • 5°C - 35°C (41°F - 95°F)

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

Drive Bays

- 1 x 3.5" fixed drive bay
- SAS or enterprise SATA HDD only recommended

Peripheral Drives

- 1 x slim DVD-ROM drive bay
- Optional 1 x Slim DVD-ROM Drive

Front Panel

- | | |
|----------------|--|
| Buttons | <ul style="list-style-type: none"> • Power On/Off button • System Reset Button |
| LEDs | <ul style="list-style-type: none"> • 2 Network Activity LEDs • HDD activity LED • Power Status LED • Unit Identification (UID) LED |

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 440W Multi-output power supply w/24pin output, Platinum level W/PMbus

Power Efficiency

- 93%

Total Output Power and Input

- 440W with Input 100 - 140Vac
- 480W with Input 180 - 240Vac

AC Input Frequency

- 50-60Hz

Dimensions (L x W x H)

- 220 x 100 x 40 mm

Output Type

- 24pin ATX

-12V

- Max: 0.5A / Min: 0A

+12V

- Max: 35.8A / Min: 0.5A (100Vac - 140Vac)
- Max: 39.1A / Min: 0.5A (180Vac - 240Vac)

+5V

- Max: 18A / Min: 0.5A

+3.3V

- Max: 15A / Min: 0.5A

+5Vsb

- Max: 3A / Min: 0A

Certification

-  **Platinum Certified**

Regulatory (Power Supply)

- | | |
|----------------------------------|--|
| Power Supply Safety / EMC | <ul style="list-style-type: none"> • BSMI • CCC • CE/EMC • FCC class B • TUV/CB • UL/CUL |
|----------------------------------|--|

Components

Standard Parts List

	Part Number	Qty	Description
Cable(S)	CBL-0087	1	Front Control Cable Round 16 pin to 16 pin Ribbon 20
Cable(S)	CBL-0260L	1	US power cord 18AWG 6ft, PBF (default for low watt)
Cable(S)	CBL-0261L	1	40CM 7 PIN SATA CABLE S-RA for SC512,512L, 26AWG
Cable(S)	CBL-0262L	1	4PIN TO 1xSATA(RA)+1x4PIN(RA)+1xFPD PWS EXT. CBL
CD-ROM & Accessory	MCP-290-00006-01	1	Black DVD dummy cover for SC512, RoHS
Fan(s)	MCP-340-00023-0N	1	40x56,4 Pin PWM Fan Assembly for SC512F, 811
Fan(s)	FAN-0087L4	2	40x56,4 Pin PWM Fan
Front Panel	FPB-FP512-D	1	Front control board dual color for SC512
Cooling Fan & Accessory	MCP-320-00003-01	1	Fan holder of two 40x40x56mm fans for SC512F-280
Part(s)	MCP-260-00024-0N	1	1U I/O shield for X8 server MB (3rd LAN + 4xLAN)

Part(s)	MCP-260-00078-0N	1	1U I/O shield for X10 and X9 Server MB with 5X5mm vent hole and EMI Gasket,RoHS/REACH,PBF
Part(s)	MCP-290-00005-01	2	Black chassis handle for SC512F-520
Power Supply & Accessory	PWS-441P-1H	1	440W/480W Platinum Power Supply

Optional Parts List

	Part Number	Qty	Description
Rail	MCP-290-00056-0N	-	Quick-release outer rail for square hole short-depth rack (19"~26.4")
Peripheral Drive(s)	DVM-TEAC-824B	-	Black slim IDE DVD (8x DVD, 24x CDR), TEAC
Peripheral Drive(s)	DVM-PNSC-824B	-	Black slim IDE DVD (8x DVD, 24x CDR), Panasonic
Peripheral Drive(s)	DVM-PNSC-DVD-SBT3	-	BLACK PANASONIC SLIM DVD ROM SATA DRIVE,HF,RoHS/REACH
Peripheral Drive(s)	DVM-TEAC-DVD-SBT3	-	BLACK TEAC SLIM DVD ROM SATA DRIVE ROHS,HF,RoHS/REACH,PBF
Peripheral Drive(s)	MCP-220-51202-0N	-	Slim SATA DVD kit for SC512,512F-260
Peripheral Drive(s)	MCP-220-51201-0N	-	Slim IDE DVD kit for SC512,512F-260
2.5" HDD Bracket	MCP-220-00051-0N	-	Single 2.5" fixed HDD bracket for SC502, 503, 510, 512, 515U
Air Shroud	MCP-310-00012-01	-	Air Shroud for 512F-280 Chassis (Mylar)
Rail	MCP-290-00055-0N	-	Rail set, screw/quick, optional for 1U 17.2