

SuperChassis 846BE2C-R1K23B



Key Features

1. Optimized chassis cooling with redundant cooling fans and adjustable air shroud
 2. 24x 3.5" hot-swap SAS/SATA drive bays supporting SAS3/2 or SATA3 HDDs with 12Gbps throughput
 3. Redundant 1200W Titanium Level power supply
 4. E2C: Dual SAS3 (12Gbps) expander backplane
 5. Mini SAS HD (SFF 8643) connectivity on backplane
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[▶ Chassis Manual](#)

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

Specifications

Product SKUs

- **CSE-846BE2C-R1K23B** ■ SuperChassis 846BE2C-R1K23B

Form Factor

- 4U chassis support for max. motherboard size - EE-ATX (13.68" x 13"), E-ATX (12" x 13"), ATX (12" x 10")

Processor Support

- Single and Dual Intel® and AMD processors

Dimensions

- **Height** ■ 7" (178 mm)
- **Width** ■ 17.2" (437 mm)
- **Depth** ■ 26" (660 mm)
- **Gross Weight** ■ 75 lbs (34.02 kg)
- **Packaging (W x H x L)** ■ 34.3" (871 mm) x 26.5" (673 mm) x 13.5" (343 mm)
- **Available Color** ■ Black

Expansion Slots

- 7 full-height & full-length expansion slot(s)

Drive Bays

- 24 x 3.5" hot-sw ap drive bay

Backplane

- 24-port 4U SAS3 12Gbps dual-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD (secondary expander port only connects to dual-port SAS devices, single-port SATA will not have this redundancy feature)

Peripheral Drives

- Optional 2 x 2.5" hot-sw ap drive bay
- Optional 1 x 3.5" internal fixed drive bay
- Optional 2 x 2.5" internal fixed drive bay

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
■ Unit Identification (UID) LED

Systems Cooling

- **Fans** ■ 3 x 8cm hot-sw ap redundant PWM cooling fan(s)
■ 2 x 80mm rear hot-sw ap exhaust PWM fan(s)

System Monitoring

- Chassis intrusion switch

Operating Environment (System)

- **Operating Temperature Range** ■ 5°C - 35°C (41°F - 95°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 1200W/1000W Titanium Power Supply W/PMBus W76xL336xH40mm

- **Power Efficiency** ■ 96%
- **Total Output Power and Input** ■ 1000W with Input 100 - 127Vac
■ 1200W with Input 200 - 240Vac
■ 1200W with Input 200 - 240Vdc
- **AC Input Frequency** ■ 50-60Hz
- **Dimensions (L x W x H)** ■ 336 x 76 x 40 mm
- **Output Type** ■ Backplanes (gold finger)
- **+12V** ■ Max: 83A (100Vac - 127Vac)
■ Max: 100A (200Vac - 240Vac)
■ Max: 100A (200 - 240)
- **+5Vsb** ■ Max: 4A / Min: 0A
- **Power Distributor** ■ PDB-PT846-2824

Certification



■ Titanium Certified

Regulatory (Power Supply)

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

Components

Standard Parts List

	Part Number	Qty	Description
Air Shroud	MCP-310-49003-0N	1	SC846 Intel DP X9, X8 PC air shroud 1368x13/12x13MB
HD Backplane	BPN-SAS3-846EL2	1	24-port 4U SAS3 12Gbps dual-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD (secondary expander port only connects to dual-port SAS devices, single-port SATA will not have this redundancy feature)
Cable(S)	CBL-0071L	1	CBL, FRONT CNTL, 16 TO 16 PIN, RA, RND TUBE, 75CM, 28AWG
Cable(S)	CBL-0160L	2	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
Cable(S)	CBL-0217L	1	CBL, CNTL PANEL CONVERTER, FOR SC826/846, FFC, 16PIN, 22CM
Cable(S)	CBL-0234L	1	4-PIN POWER SUPPLY Y-CABLE FOR HDD, 15CM, 20AWG
Fan(s)	FAN-0125L4	2	80x32 mm 6.7K RPM SC836 Rear Exhaust Fan w/ Housing
Fan(s)	FAN-0185L4	3	80x80x38 mm, 10.5K RPM, Hot-swappable Middle Cooling Fan for X11 Generation SC846B Chassis
Front Panel	MCP-280-82601-0N	1	Front control board adapter (TB826) for SC216, 826, 936, 846
Drive Tray(s)	MCP-220-00075-0B	24	Black gen 5.5 hot-swappable 3.5"; HDD tray
Power Distributor	PDB-PT846-2824	1	PDB with 23pairs input connector support SC846B
Power Supply & Accessory	PWS-1K23A-1R	2	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 360x76x40 mm, HF, RoHS/REACH
Power Supply & Accessory	MCP-290-84604-0N	1	SC846 PDB Cover
Mounting Rail(s)	MCP-290-00057-0N	1 set	Rail set, quick/quick, default for 4U 17.2"; W
Mounting Rail(s)	MCP-410-00007-0N	1	Rail screw bag
Rear Window	MCP-240-84602-0N	1	846B rear window which support 2 X 2.5"; HDD module and DVD

Optional Parts List

	Part Number	Qty	Description
Drive Trays	MCP-220-84601-0N	-	Single 3.5" Fixed HDD Tray (RA cables required)
Short Rail	MCP-290-00058-0N	-	19" to 26.6" rail set, Quick Release, Tool-less (for rev. K4 or later)
DVD-ROM / DVD-RW	MCP-220-84607-0N	-	Optional DVD kit for SC846BA/E16/E26 chassis only
HDD Tray Converter	MCP-220-00118-0B	-	Black gen-5.5 tool-less 3.5-to-2.5 converter drive tray, RoHS/REACH
HDD Kit	MCP-220-84610-0N	-	12G 2.5-inch x2 Drive Kit w/ Status LED for 846B