

SuperChassis 847BE1C12-R1K68LPB4



Key Features

1. 36x (24 front + 12 rear) 3.5" hot-swap SAS/SATA drive bays supporting SAS3/2 or SATA3 HDDs with 12Gbps throughput
 2. Optional rear 2.5" removable HDD
 3. Redundant 1600W Titanium Level (1+1) power supplies with PMBus
 4. 7x low-profile expansion slots; 7x 8cm (middle) hot-swap 13.5Krpm cooling fans and adjustable air shroud
 5. E1C12: Single SAS3 (12Gbps) expander plus 12 x NVMe backplane(Front:8/ Rear:4)
 6. Mini SAS HD (SFF 8643) connectivity on backplane
 7. Palletized packaging for easy shipping and handling
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Specifications

Product SKUs

- **CSE-847BE1C12-R1K68LPB4** ■ SuperChassis 847BE1C12-R1K68LPB4

Form Factor

- 4U chassis support for motherboard size 12" x 10", 13.68" x 13", 9.6" x 9.6"

Processor Support

- Dual and Single Intel® and AMD processors

Dimensions

- **Height** ■ 7" (178 mm)
- **Width** ■ 17.2" (437 mm)
- **Depth** ■ 27.5" (699 mm)
- **Gross Weight** ■ 91 lbs (41.28 kg)
- **Packaging (W x H x L)** ■ 27.2" (691 mm) x 17.4" (442 mm) x 39.6" (1006 mm)
- **Available Color** ■ Black

Expansion Slots

- 7x Low-profile expansion slot(s)

Drive Bays

- Optional 2x 2.5" hot-swap drive bay
- 36x 3.5" hot-swap SAS/SATA drive bay with SES3

Backplane

- 12-Port 2U Backplane with Expander support up to 8 x 3.5" SAS3/SATA3 HDD/SDD and 4 x SAS3/SATA3/NVMe Storage Devices, HF, RoHS/REACH
- 24-Port 4U Expander Backplane Support up-to 16x 3.5" SAS3/SATA3 HDD/SSD and 8 x SAS3/SATA3/NVMe Storage Devices

Peripheral Drives

- Optional 4x 2.5" internal fixed drive bay
- Optional 2x 3.5" internal fixed drive bay

Front Panel

- **Button** ■ Power On/Off button
■ System Reset button
- **LED** ■ Power status LED
■ HDD activity LED
■ 2 Network Activity LEDs
■ Unit Identification (UID) LED
■ Fan Fail/System Over Heat LED

Systems Cooling

- **Fans** ■ 7x 80mm high-performance 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 800/1600W Single Output Power Supply Titanium Level

- **Power Efficiency** ■ 96%
- **Total Output Power and Input** ■ 1600W with Input 180 - 240Vac
■ 800W with Input 100 - 140Vac
- **AC Input Frequency** ■ 50-60Hz
- **Dimensions (L x W x H)** ■ 336 x 76 x 40 mm
- **Output Type** ■ Backplanes (gold finger)
- **+12V** ■ Max: 66A / Min: 0A (100Vac - 140Vac)
■ Max: 133A / Min: 0A (180Vac - 240Vac)
- **+5Vsb** ■ Max: 1A / Min: 0A
- **Power Distributor** ■ PDB-PT847-8824
■ O/P: 12V/135
■ +5V Max: 100A
■ +3.3V Max: 30A
■ -12V Max: 0.6A

Certification



■ Titanium Certified

Regulatory (Power Supply)

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

Components

Standard Parts List

	Part Number	Qty	Description
Air Shroud	MCP-310-49004-0N	1	SC847/417 DP X9 universal PC air shroud 1368x13/12x13MB
HD Backplane	BPN-SAS3-826EL1-N4	1	12-Port 2U Backplane with Expander support up to 8 x 3.5" SAS3/SATA3 HDD/SDD and 4 x SAS3/SATA3/NVMe Storage Devices, HF, RoHS/REACH
HD Backplane	BPN-SAS3-846EL1-N8	1	24-Port 4U Expander Backplane Support up-to 16x 3.5
Cable(s)	CBL-0071L	1	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF
Cable(s)	CBL-0160L	2	US POWER CORD 16AWG, PB FREE
Cable(s)	CBL-PWEX-1079	7	PWEX, FAN, 1X4/P2.5 TO 1X4/P2.5, 37CM, 22AWG, 5A/pin, RoHS
Part(s)	MCP-120-00115-0N	7	Blank LP L-bracket with 4x4 vent holes
Part(s)	MCP-230-84705-0N	1	Top cover for SC847 847B series
Part(s)	MCP-270-84703-0N	1	
Part(s)	MCP-290-00095-0N	1	4U Chassis Intrusion Assembly 80cm
Part(s)	MCP-290-84606-0V	1	Silver right chassis handle for SC846, 848
Part(s)	MCP-290-84615-0V	1	
Fan(s)	FAN-0166L4	7	80x80x38 mm, 13.5K RPM, Optional Middle Cooling Fan for 2U Ultra Series Servers (Hot-swappable Version of FAN-0162L4)
Front Panel	FPB-TB826-T	1	Chassis transfer board for SC826
Drive Tray(s)	MCP-220-00075-0B	36	Black gen 5.5 hot-swap 3.5" HDD tray
Drive Tray(s)	MCP-220-84708-ASM	1	SC847B LP MB Tray assembly, HF, RoHS/REACH
Power Distributor	PDB-PT847-8824	1	24pin standard output with 5V high current 100Amp power distributor board for SC847
Power Supply & Accessory	PWS-1K68A-1R	2	1U 1600W Redundant Titanium Power Supply 76mm width 27Pair, PBF
Mounting Rail(s)	MCP-410-00007-0N	1	Rail screw bag
Mounting Rail(s)	MCP-290-00057-0N	1 set	Rail set, quick/quick, default for 4U 17.2" W

Optional Parts List

	Part Number	Qty	Description
Cable	CBL-SAST-0532 • eStore	-	Internal Mini-SAS HD to Mini-SAS HD 50cm, 30AWG, 12Gb/s, HF, RoHS/REACH, PBF
	CBL-SAST-0531-01 • eStore	-	Internal Mini-SAS HD to Mini-SAS HD 80cm, 30AWG, 12Gb/s [FCI], RoHS/REACH
Front Bezel	MCP-210-84601-0B • eStore	-	Black Front Bezel For SC846 Chassis
HDD Kit	MCP-220-82619-0N	-	2.5x2 NVMe Drive Kit for 216B/826B/417B/846X/847B, RoHS
	<u>MCP-220-82616-0N</u> • eStore	-	12G 2.5x2 Drive Kit w/ Status LED (216B/826B/417B/846X/847B)
	MCP-220-84701-0N	-	SC847 internal drive tray for one 3.5
	MCP-220-82609-0N	-	Rear 2.5 x 2 Hot swap HDD kit for 216B/826B/417B/846X/847B
HDD Tray Converter	MCP-220-00043-0N • eStore	-	Black hotswap gen 4 3.5 to 2.5 HDD tray
	MCP-220-00138-0B • eStore	-	Black gen-5.5 tool-less NVMe 3.5-to-2.5 drive tray, Orange tab
Rail	MCP-290-00058-0N • eStore	-	Short rail set, quick release, 19.6"~26.9" Extendable Length
	MCP-290-00061-0N • eStore	-	Non-threaded rail adapter optional for round thread rack

Motherboard (for CSE-847BE1C12-R1K68LPB4)

X12DPI-N6

X12DPI-NT6

● = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU