

# SuperChassis 847BE2C-R1K28LPB

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▶ **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

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1. 4U Chassis for motherboard support size: (12" x 10") (13.68" x 13")
  2. 36 x 3.5" hot-swap SAS/SATA drive bay with SES3, optional 2 x 2.5" hot-swap drive bay
  3. 12-port 2U SAS3 12Gbps dual-expander backplane, support up to 12x 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)
  4. 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)
  5. 1U 1280W Redundant Platinum 95%+ Super Quiet Power Supply with PMbus
  6. 7 low-profile expansion slot(s)
  7. 7 x 8cm (7000 RPM) hot-swap PWM cooling fan(s)
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# Specifications

## Product SKUs

- CSE-847BE2C-R1K28LPB
- SuperChassis 847BE2C-R1K28LPB

## Form Factor

- 4U Chassis for motherboard support size: (12" x 10") (13.68" x 13")

## Processor Support

- Single and Dual 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

- 7 low-profile expansion slot(s)

## Drive Bays

- 36 x 3.5" hot-sw ap SAS/SATA drive bay w ith SES3
- Optional 2 x 2.5" hot-sw ap drive bay

## Backplane

- 12-port 2U SAS3 12Gbps dual-expander backplane, support up to 12x 3.5-inch SAS3/SATA3 HDD/SSD (secondary expander port only connects to dual-port SAS devices, single-port SATA w ill not have this redundancy feature)
- 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 w ill not have this redundancy feature)

## Peripheral Drives

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

## Front Panel

- Buttons
  - Pow er On/Off button
  - System Reset Button
- LEDs
  - 2 Netw ork Activity LEDs
  - Fan Fail/System Over Heat LED
  - HDD activity LED
  - Pow er Status LED
  - Unit Identification (UID) LED

## Systems Cooling

- Fans
  - 7 x 8cm (7000 RPM) hot-sw ap PWM cooling 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 1280W Redundant Platinum 95%+ Super Quiet Pow er Supply w ith PMbus

- Power Efficiency
  - 95%
- Total Output Power and Input
  - 1000W w ith Input 100 - 140Vac
  - 1280W w ith Input 180 - 240Vac
- AC Input Frequency
  - 50-60Hz
- Dimensions (L x W x H)
  - 336 x 76 x 40 mm
- Output Type
  - Backplanes (gold finger)
- 12V
  - Max: NAA
- +12V
  - Max: 83A / Min: 0.5A (100Vac - 140Vac)
  - Max: 106.7A / Min: 0.5A (180Vac - 240Vac)
- +5Vsb
  - Max: 4A / Min: 0A
- +12Vsb
  - Max: NAA
- Power Distributor
  - PDB-PT847-8824
  - O/P: 12V/135
  - +5V Max: 100
  - +3.3V Max: 30
  - 12V Max: 0.6

## Certification

-  Platinum 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                                                                                                                                                                                                            |
|--------------------------|-------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Air Shroud               | MCP-310-49004-0N  | 1     | SC847/417 DP X9 universal PC air shroud 1368x13/12x13MB                                                                                                                                                                |
| HD Backplane             | BPN-SAS3-826EL2   | 1     | 12-port 2U SAS3 12Gbps dual-expander backplane, support up to 12x 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) |
| 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                                                                                                                                                                  |
| Fan(s)                   | FAN-0126L4        | 7     | 80x80x38 mm 7K RPM Chassis Middle Fan w / Housing                                                                                                                                                                      |
| Front Panel              | MCP-280-82601-0N  | 1     | Front control board adapter (TB826) for SC216,826,936,846                                                                                                                                                              |
| Drive Tray(s)            | MCP-220-00075-0B  | 36    | Black gen 5.5 hot-sw ap 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-1K28P-SQ      | 2     | 1U 1280W, redundant single output power supply                                                                                                                                                                         |
| 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                                                                                                                                                                                                         |

Optional Parts List

|               | Part Number      | Qty | Description                                                             |
|---------------|------------------|-----|-------------------------------------------------------------------------|
| Cable         | CBL-SAST-0531    | -   | Internal Mini-SAS HD to Mini-SAS HD 80cm,30AWG,12Gb/s                   |
| Cable         | CBL-SAST-0532    | -   | Internal Mini-SAS HD to Mini-SAS HD 50cm,30AWG,12Gb/s                   |
| Drive Trays   | MCP-220-84701-0N | -   | Internal drive bay for one 3.5" HDD or two 2.5" HDD                     |
| Drive Trays   | MCP-220-00043-0N | -   | 3.5" convert to 2.5" hot-sw ap HDD Tray                                 |
| Front Bezel   | MCP-210-84601-0B | -   | Front Bezel Cover, Black with Key Lock                                  |
| Mounting Rail | MCP-290-00058-0N | -   | 19" to 26.6" rail set, Quick Release, Tool-less                         |
| HDD Kit       | MCP-220-82609-0N | -   | Rear 2.5 x 2 Hot sw ap HDD kit for 216B/826B/417B/846X/847B             |
| Drive Trays   | MCP-220-00118-0B | -   | Black gen-5.5 tool-less 3.5-to-2.5 converter drive tray,RoHS/REACH      |
| Drive Trays   | MCP-220-84701-0N | -   | SC847 internal drive tray for one 3.5                                   |
| Cable         | CBL-SAST-0531-01 | -   | Internal Mini-SAS HD to Mini-SAS HD 80cm,30AWG,12Gb/s [FCI],RoHS/REACH  |
| Cable         | CBL-SAST-0532    | -   | Internal Mini-SAS HD to Mini-SAS HD 50cm,30AWG,12Gb/s,HF,RoHS/REACH,PBF |
| Front Bezel   | MCP-210-84601-0B | -   | Black Front Bezel For SC846 Chassis                                     |
| Rail          | MCP-290-00058-0N | -   | Short rail set, quick release, 19.6"~26.9" Extendable Length            |
| Rail          | MCP-290-00061-0N | -   | Non-threaded rail adapter optional for round thread rack                |
| HDD Kit       | MCP-220-82616-0N | -   | 12G 2.5x2 Drive Kit w / Status LED (216B/826B/417B/846X/847B            |

Motherboard (for CSE- 847BE2C-R1K28LPB)

|                    |                                                                                                        |                         |                  |
|--------------------|--------------------------------------------------------------------------------------------------------|-------------------------|------------------|
| <u>X9DR3-F</u>     | <u>X9DRi-F</u>                                                                                         | <u>X9DRH-7F</u>         | <u>X9DRH-7TF</u> |
| <u>X9DRH-iF</u>    | <u>X9DRH-iTF</u>                                                                                       | <u>X9DRD-7LN4F-JBOD</u> | <u>X9DRD-EF</u>  |
| <u>X9DRD-7LN4F</u> | <u>X9DB3-TPF</u>                                                                                       | <u>X9DB3-F</u>          | <u>X9DBi-TPF</u> |
| <u>X9DBi-F</u>     | <u>X9DRH-iF-NV</u>                                                                                     | <u>X10DRI</u>           | <u>X10DRI-T</u>  |
| <u>X10DRH-I</u>    | <u>X10DRH-iT</u>                                                                                       | <u>X10DRH-CT</u>        | <u>X10DRH-C</u>  |
| X10DRH-iLN         |  <u>X10DRH-CLN4</u> |                         |                  |