

SuperChassis 847E1C-R1K23JBOD



▶ [Chassis Manual](#) ▶ [Drive Options](#)

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

Key Features

Double-sided High Density JBOD Storage Enclosure

1. 44x (24 front + 20 rear) 3.5" hot-sw ap SAS/SATA drive bays supporting SAS3/2 or SATA3 HDDs w ith 12Gbps throughput
2. Redundant 1200W Titanium Level (1+1) pow er supplies w ith PMBus
3. 7x 8cm (middle) hot-sw ap redundant cooling fans
4. SAS3 (12Gbps) backplane w ith single expander supports SAS3/SATA3 drives for capacity expansion
5. JBOD Pow er Control Board w ith IPMI for remote monitor and pow er on-off
6. 4x External mini SAS HD (SFF 8644) connectivity and IPMI RJ45 port
7. Palletized packaging for easy shipping and handling
8. Qualified SAS HBA / controller:
AOC-SAS3-9300-8E - 12Gb/s 2-external ports SAS3 HBA
AOC-SAS3-9380-8E - 12Gb/s 2-external ports SAS3 RAID Controller

For optimal performance and quality, Supermicro validated drives are recommended. Please contact your Supermicro sales rep for validated HDD.

Specifications

Product SKUs

- **CSE-847E1C-R1K23JBOD** ■ SuperChassis 847E1C-R1K23JBOD

Form Factor

- 4U SAS3 JBOD storage chassis

Dimensions

- **Height** ■ 7" (178 mm)
- **Width** ■ 17.2" (437 mm)
- **Depth** ■ 27.5" (699 mm)
- **Gross Weight** ■ 95 lbs (43.09 kg)
- **Packaging (W x H x L)** ■ 27.2" (691 mm) x 17.4" (442 mm) x 39.6" (1006 mm)
- **Available Color** ■ Black

Drive Bays

- 44x 3.5" hot-sw ap HDD bay for JBOD solution

Qualified SAS Controllers

- **AOC-SAS3-9380-8E** SAS 12Gb/s PCIe 3.0 8-Port MegaRAID Controller
- **AOC-SAS3-9300-8E** SAS 12Gb/s PCIe 3.0 8-Port Host Bus Adapter

Backplane

- 24-Port 4U SAS3 12Gbps single-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD
- 20-Port 4U (SC847E1C JBOD) SAS3 12Gbps single-expander backplane (rear), support up to 20x 3.5-inch SAS3/SATA3 HDD/SSD

Front Panel

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

Systems Cooling

- **Fans** ■ 7x 8cm hot-sw ap redundant PWM cooling fan(s)

System Monitoring

- IPMI

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**
 - 1200W with Input 200 - 240Vac
 - 1000W with Input 100 - 127Vac
 - 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: 100A / Min: 0A (200Vdc - 240Vdc)
 - Max: 100A / Min: 0A (200Vac - 240Vac)
 - Max: 83A / Min: 0A (100Vac - 127Vac)
- **+5Vsb** ■ Max: 4A / 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/CB
 - UL/CUL

Components

Standard Parts List

	Part Number	Qty	Description
Bracket	MCP-120-84702-0N	1	CB3 mounting bracket for use on chassis with CB2 holes. Bracket to mount CB3 card on existing CB2 standoff on SC847/SC417/SC837/SC826/SC836/SC846 in JBOD configuration.,HF,RoHS/REACH,PBF
HD Backplane	BPN-SAS3-846EL1	1	24-port 4U SAS3 12Gbps single-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD
HD Backplane	BPN-SAS3-847EL1	1	20-port 4U (SC847E1C JBOD) SAS3 12Gbps single-expander backplane (rear), support up to 20x 3.5-inch SAS3/SATA3 HDD/SSD
Control Board	MCP-280-84701-0N	2	SC847D JBOD Mini SAS HD Ext-to-Int adapter ,HF,RoHS/REACH,PBF
Control Board	CSE-PTJBOD-CB3	1	JBOD chassis power control board with IPMI remote on/off feature
Cable(s)	CBL-CDAT-0601	2	4 Pin to 4 Pin I2C cable, 50cm, 26AWG
Cable(s)	CBL-NTWK-0587	1	INT RJ45WRJ45F Adapter W/ PCB 50CM 24AWG for SC847D JBOD
Cable(s)	CBL-SAST-0568	2	Internal Mini-SAS HD to Mini-SAS HD 35cm,30AWG,12Gb/s
Cable(s)	CBL-SAST-0593	4	Internal Mini-SAS HD to Mini-SAS HD 60cm,30AWG,12Gb/s
Cable(s)	CBL-SAST-0593-01	4	Internal Mini-SAS HD to Mini-SAS HD 60cm,30AWG,12Gb/s [FCI]
Power Distributor	PDB-PT847-8824	1	24pin standard output with 5V high current 100Amp power distributor board for SC847
Power Supply & Accessory	PWS-1K23A-1R	2	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 336x76x40 mm,HF,RoHS/REACH

Optional Parts List

	Part Number	Qty	Description
Cable	CBL-SAST-0690-1 •eStore	-	MINI SAS HD, 12G, EXT, 2M, 30AWG, RoHS
	CBL-SAST-0677 •eStore	-	3m 12G external Mini SAS HD to external mini SAS HD.28AWG,RoHS/REACH
	CBL-SAST-0573 •eStore	-	1m external Mini SAS HD to external mini SAS HD.28AWG,HF,RoHS/REACH,PBF
HDD Tray Converter	MCP-220-00118-0B •eStore	-	Black gen-5.5 tool-less 3.5-to-2.5 converter drive tray,RoHS/REACH
Rail	MCP-290-00058-0N •eStore	-	Short rail set, quick release, 19.6"~26.9" Extendable Length