

SuperChassis 847E1C-R1K28JBOD



▶ [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

1. 44x (24 front + 20 rear) 3.5" hot-swap SAS/SATA drive bays supporting SAS3/2 or SATA3 HDDs with 12Gbps throughput
 2. Redundant 1280W Platinum Level (1+1) power supplies with PMBus
 3. 7x 8cm (middle) hot-swap redundant cooling fans
 4. SAS3 (12Gbps) backplane with single expander supports SAS3/SATA3 drives for capacity expansion
 5. JBOD Power Control Board with IPMI for remote monitor and power 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-R1K28JBOD** ■ SuperChassis 847E1C-R1K28JBOD

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

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

Qualified SAS Controllers

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

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

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

Systems Cooling

- **Fans** ■ 7 x 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 1280W Redundant Platinum 95%+ Super Quiet Power Supply with PMBus

- **Power Efficiency** ■ 95%
- **Total Output Power and Input**
 - 1000W with Input 100 - 140Vac
 - 1280W with 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
HD Backplane	BNP-SAS3-846EL1	1	24-port 4U SAS3 12Gbps single-expander backplane, support up to 24x 3.5-inch SAS3/SATA3 HDD/SSD
HD Backplane	BNP-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	CSE-PTJBOD-CB3	1	JBOD chassis power control board with IPMI remote on/off feature
Control Board	MCP-280-84701-0N	2	SC847D JBOD Mini SAS HD Ext-to-Int adapter ,HF,RoHS/REACH,PBF
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-CDAT-0601	2	CBL,12C,1X4F/P2.5 TO 1X4F/P2.5,50CM,26AWG,BRN/BLK-SHUNT/ORG
Cable(S)	CBL-NTWK-0587	1	INT RJ45M/RJ45F Adapter W/ PCB 50CM 24AWG for SC847D JBOD
Cable(S)	CBL-SAST-0568	2	MINI SAS HD,12G,INT,35CM,30AWG
Cable(S)	CBL-SAST-0593	4	MINI SAS HD,12G,INT,60CM,30AWG
Cable(S)	CBL-SAST-0593-01	4	MINI SAS HD,12G,INT,60CM,30AWG
Fan(s)	FAN-0126L4	7	80x80x38 mm 7K RPM Chassis Middle Fan w/ Housing
Drive Tray(s)	MCP-220-00075-0B	44	Black gen 5.5 hot-sw ap 3.5"; HDD tray
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
Rail	MCP-290-00058-0N	-	Short rail set, quick release, 19.6"~26.9" Extendable Length
HDD Tray Converter	MCP-220-00043-0N	-	Black hotsw ap gen 4 3.5 to 2.5 HDD tray
Cable	CBL-SAST-0573	-	1m external Mini SAS HD to external mini SAS HD.28AWG,HF,RoHS/REACH,PBF
Cable	CBL-SAST-0690-1	-	MINI SAS HD,12G,EXT,2M,30AWG,RoHS
Cable	CBL-SAST-0677	-	3m 12G external Mini SAS HD to external mini SAS HD.28AWG,RoHS/REACH