

SuperChassis 946SE1C-R1K66JBOD



▶ [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. Extreme High Density and High Capacity Storage
Chassis support 60 x 3.5" Top Loading SAS/SATA
12Gb/s Hot Swapping HDD/SSD Bays
2. Tool-less HDD tray with HDD LED indicator
3. Single Expander Backplane Boards support SAS3/2
HDDs with 12Gb/s throughput
4. 4 x Mini-SAS HD ports for Internal / External Cascading
Expander Combination for high performance, high
availability or high redundancy requirements
5. 1x IPMI port for Remote System Power on/off and
system monitoring
6. Support NTP for time synchronization & RTC battery
backup
7. 1600W (1+1) Redundant High-efficiency Platinum Level
Power Supplies
8. Optimized cooling w/ 5x 80x38mm rear hot-swap fans
9. Support front LCD panel for system status & error info
(Option)
10. Ideal for Cloud backup, data Replication or High
density Archive Storage Applications
11. 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 system validation and quality assurance purposes, system configurations require a minimum of 25% of the available drives be populated with validated Supermicro drives. Please contact your Supermicro sales rep for validated HDD.

Specifications	
Product SKUs	
CSE-946SE1C-R1K66JBOD	■ SuperChassis 946SE1C-R1K66JBOD
Form Factor	
■ 4U JBOD storage chassis	
Dimensions	
Height	■ 7" (178 mm)
Width	■ 17.2" (437 mm)
Depth	■ 30.2" (767.08 mm) ■ 35.2" (894 mm) with cable management arm installed
Net Weight	■ 100 lbs (45.36 kg)
Gross Weight	■ 155 lbs (70.31 kg)
Packaging (W x H x L)	■ 28" (711 mm) x 33.25" (845 mm) x 42.5" (1080 mm)
Available Color	■ Black
Drive Bays	
■ 60 x 3.5" hot-swap SAS/SATA drive bay with SES3	
Qualified SAS Controllers	
■ AOC-SAS3-9300-8E: ■ AOC-SAS3-9380-8E:	
Backplane	
■ 30-port 4U 946S Top-load SAS3 12Gbps single-expander midplane, support up to 30x 3.5-inch SAS3/SATA3 HDD/SSD	
Front Panel	
Buttons	■ Power On/Off button ■ Unit Identification (UID) button
LEDs	■ 1 Network Activity LEDs ■ Power Status LED ■ Power Fail LED ■ System Information LED
Systems Cooling	
Fans	■ 5 x 80mm rear hot-swap exhaust PWM 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 - 60°C (-40°F - 140°F)
Operating Relative Humidity Range	■ 8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	■ 5% - 95% (non-condensing)
Power Supply	
1600W redundant power supply, Platinum level with PMBus & I2C	
Power Efficiency	■ 94%
Total Output Power and Input	■ 1000W with Input 100 - 127Vac ■ 1600W with Input 200 - 240Vac
AC Input Frequency	■ 50-60Hz
Dimensions (L x W x H)	■ 265 x 73.5 x 40 mm
Output Type	■ Backplanes (gold finger)
+12V	■ Max: 132A / Min: 0.1A (200Vac - 240Vac) ■ Max: 82A / Min: 0.1A (100Vac - 120Vac)
+12Vsb	■ Max: 2A / Min: 0.2A
Power Distributor	■ PDB-PT946S-824 ■ O/P: 12V/168A ■ +5V Max: 25A ■ +3.3V Max: 25A ■ -12V Max: 0.6A
Certification	■  Platinum Certified
Regulatory (Power Supply)	
Power Supply Safety / EMC	■ BSMI ■ CCC ■ CE/EMC ■ FCC class A ■ TUV/CB ■ UL/CUL

Components

Standard Parts List

	Part Number	Qty	Description
HD Backplane	BPN-SAS3-946SEL1	2	30-port 4U 946S Top-load SAS3 12Gbps single-expander midplane, support up to 30x 3.5-inch SAS3/SATA3 HDD/SSD
Control Board	CSE-PTJBOD-CB3	1	JBOD chassis power control board with IPMI remote on/off feature
Cable(S)	CBL-0087	1	CBL,FRONT CNTL,16 TO 16 PIN,Ribbon,50CM
Cable(S)	CBL-0160L	2	US POWER CORD 16AWG, PB FREE
Cable(S)	CBL-0303L	1	4PIN POWER CABLE, ST TO RA, 40CM
Cable(S)	CBL-0459L	2	AC Power Cord Latch Clamp
Cable(S)	CBL-CDAT-0601	2	4 Pin to 4 Pin I2C cable, 50cm, 26AWG
Cable(S)	CBL-NTWK-0587	1	INT RJ45M/RJ45F Adapter W/ PCB 50CM 24AWG for SC847D JBOD
Cable(S)	CBL-PWCD-0578-1	2	PWCD,US,IEC60320 C14 TO C13,3FT,14AWG,RoHS
Cable(S)	CBL-PWCD-0578-IS	2	PWCD,US,IEC60320 C14 TO C13,910mm,14AWG,15A,250V,Black, RoHS
Cable(S)	CBL-PWEX-0861	1	Powerlug to 5.7 Radsok, black 12AWG, 32cm for SC946S
Cable(S)	CBL-PWEX-0862	1	Powerlug to 5.7 Radsok, black 12AWG, 53cm for SC946S
Cable(S)	CBL-PWEX-0863	1	Powerlug to 5.7 Radsok, yel 12AWG, 32cm for SC946S
Cable(S)	CBL-PWEX-0864	1	Powerlug to 5.7 Radsok, yel 12AWG, 53cm for SC946S
Cable(S)	CBL-SAST-0833	2	SLIMLINE SAS, INT, 55MM, 32AWG
Cable(S)	CBL-SAST-0834	2	SLIMLINE SAS to MiniSAS HD, INT, 50CM, 32AWG
Cable(S)	CBL-SAST-0835	2	SLIMLINE SAS to MiniSAS HD, INT, 100CM, 32AWG
Fan(s)	FAN-0184L4	5	80x80x38 mm, 14.4K RPM, Rear Exhaust Fan for SC946S Chassis (60-bay)
Front Panel	FPB-FP829H	1	Front Control Board for SC829H chassis
Drive Tray(s)	MCP-220-94601-0N	60	SC946ED 3.5" / 2.5" tool-less HDD tray
Power Distributor	PDB-PT946S-L824	1	4U PDB support over 2KW for SC946S and 45bay system.,RoHS
Power Supply & Accessory	PWS-1K66P-1R	2	1U 1600W Redundant Platinum Power Supply 73.5mm width,RoHS/REACH,PBF
Mounting Rail(s)	MCP-290-00133-0N	1	Cable Management Arm, 2U height, 4
Mounting Rail(s)	MCP-290-00137-0N	1	Rail set, Auto-latch, quick/quick, default 4U 17.2";W
Rear Window	MCP-240-94604-0N	1	SC946S rear window, NO I/O. w/ 3x LP slots

Optional Parts List

	Part Number	Qty	Description
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
Adaptor Bracket	MCP-290-00166-0N	1	Threaded rail adapter, auto latch, for round hole rack,RoHS