

SuperChassis 946ED-R2KJBOD (Complete System Only)



▶ [Chassis Manual](#) ▶ [Drive Options](#) ▶ [Expander/IPMI Firmware & Utility](#)

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 Dual-path Storage Enclosure
2. Support 90 x 3.5" or 2.5" Top Loading SAS3 12Gb/s Hot-swappable HDDs
3. Hot-swappable Expanders with redundant BMC for Remote System Power on/off and monitoring
4. Hot-swappable Tool-less Modular Design for Easy Service and Easy Maintenance
5. High Performance up to 20+ GB/s data transfer rate
6. Tool-less HDD tray with HDD LED indicator
7. SCSI Enclosure Services (SES 3.0) compliant
8. Flexible to configure up to 4 Hosts HDD Zoning and individual HDD power cycling
9. Slide Rails and Cable Management Arm included
10. 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-946ED-R2KJBOD	■ SuperChassis 946ED-R2KJBOD
Form Factor	
■ 4U JBOD storage chassis	
Dimensions	
Height	■ 7" (178 mm)
Width	■ 17.6" (447 mm)
Depth	■ 35.66" (906 mm) ■ 41" (1041 mm) with cable management arm installed
Net Weight	■ 130 lbs (58.97 kg)
Gross Weight	■ 225 lbs (102.06 kg)
Packaging (W x H x L)	■ 31.49" (800 mm) x 30.12" (765 mm) x 45.28" (1150 mm)
Available Color	■ Black
Drive Bays	
■ 90 x 3.5"/2.5" hot-swap SAS drive bay with SES3	
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	
Front Panel	
Buttons	■ Power On/Off button ■ Unit Identification (UID) button
LEDs	■ 2 Network Activity LEDs ■ Power Fail LED ■ System Information LED ■ Unit Identification (UID) LED
Systems Cooling	
Fans	■ 5 x 80mm heavy duty fan(s) with PWM fan(s) speed control
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 1000W Redundant Single Output Power Supply Titanium Level	
Power Efficiency	■ 96%
Total Output Power and Input	■ 800W with Input 100 - 127Vac ■ 1000W with Input 200 - 240Vac
AC Input Frequency	■ 50-60Hz
Dimensions (L x W x H)	■ 185 x 73.5 x 40 mm
Output Type	■ Backplanes (gold finger)
+12V	■ Max: 66.7A (100Vac - 127Vac) ■ Max: 83A (200Vac - 240Vac)
+12Vsb	■ Max: 2.1A
Power Distributor	■ PDB-PT946-S616 ■ O/P: 12V/345A ■ +5V Max: 0A ■ +3.3V Max: 0A ■ -12V Max: 0A
Certification	■  Titanium 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
Cable(S)	CBL-PWCD-0579-1	4	PWCD,US,IEC60320 C14 TO C13,6FT,14AWG,RoHS
Fan(s)	FAN-0161L4	5	80x80x80 mm, 12K-11.3K RPM, Counter-rotating Exhaust Fan for SC946ED (90-bay) JBOD Chassis
Drive Tray(s)	MCP-220-94601-0N	90	SC946ED 3.5" / 2.5" tool-less HDD tray
Power Distributor	PDB-PT946-S616	1	12V 25pair connector input support 4pcs power supplies redundancy with special wires 12V/345A output
Power Supply & Accessory	PWS-1K04A-1R	4	1U CRPS Redundant 1000W Titanium (185X73.5X40mm)
Mounting Rail(s)	MCP-290-00124-0N	1	Rail set, Quick/Quick, for 4U 16.7"W SC946ED
Mounting Rail(s)	MCP-290-00129-0N	1	cable arm for SC946

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 external Mini SAS HD to external mini SAS HD
Cable	CBL-PWCD-0579	-	Power Cord,US,IEC60320, C14 TO C13,6FT,14AWG

*Note: SAS3-946EL_xxxxx - Expander Firmware
FWPX_946_xxxxx - SC946ED Expander firmware update utility
SMT_946E90_xxxxx - IPMI firmware