

SuperChassis 946ED-R2KJBOD



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

[▶ Chassis Manual](#) ▶ [Expander/IPMI Firmware & Utility](#) ▶ [HDD/SDD Compatibility List](#)

For system validation and quality assurance purposes, system configurations require all available drives to be populated with validated Supermicro drives. Please contact your Supermicro sales rep for validated HDD.

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

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)
 Net Weight • 130 lbs (58.97 kg)

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 • -40°C - 70°C (-40°F - 158°F)

Gross Weight	<ul style="list-style-type: none"> • 225 lbs (102.06 kg)
Packaging (W x H x L)	<ul style="list-style-type: none"> • 31.49" (800 mm) x 30.12" (765 mm) x 45.28" (1150 mm)
Available Color	<ul style="list-style-type: none"> • Black

Drive Bays	
	<ul style="list-style-type: none"> • 90 x 3.5"/2.5" hot-swap SAS drive bay with SES3

Front Panel	
Buttons	<ul style="list-style-type: none"> • Power On/Off button • Unit Identification (UID) button
LEDs	<ul style="list-style-type: none"> • 2 Network Activity LEDs • Power Fail LED • System Information LED • Unit Identification (UID) LED

Operating Relative Humidity Range	<ul style="list-style-type: none"> • 8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	<ul style="list-style-type: none"> • 5% - 95% (non-condensing)

Power Supply	
1U 1000W Redundant Single Output Power Supply Titanium Level	
Power Efficiency	<ul style="list-style-type: none"> • 96%
Total Output Power and Input	<ul style="list-style-type: none"> • 800W with Input 100 - 127Vac • 1000W with Input 200 - 240Vac
AC Input Frequency	<ul style="list-style-type: none"> • 50-60Hz
Dimensions (L x W x H)	<ul style="list-style-type: none"> • 185 x 73.5 x 40 mm
Output Type	<ul style="list-style-type: none"> • Backplanes (gold finger)
+12V	<ul style="list-style-type: none"> • Max: 66.7A (100Vac - 127Vac) • Max: 83A (200Vac - 240Vac) •
+12Vsb	<ul style="list-style-type: none"> • Max: 2.1A
Power Distributor	<ul style="list-style-type: none"> • PDB-PT946-S616 • O/P: 12V/345A • +5V Max: 0A • +3.3V Max: 0A • -12V Max: 0A
Certification	<ul style="list-style-type: none"> •  Titanium Certified

Regulatory (Power Supply)	
Power Supply Safety / EMC	<ul style="list-style-type: none"> • BSMI • CCC • CE/EMC • FCC class A • TUV/CB • UL/CUL

Components

Standard Parts List

	Part Number	Qty	Description
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	-	2m external Mini SAS HD to external mini SAS HD.28AWG,RoHS/REACH

Cable	CBL-SAST-0677	-	3m external Mini SAS HD to external mini SAS HD
-------	---------------	---	-------------------------------------------------

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