

SuperChassis 946SE1C-R1K66JBOD



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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
4. 1x IPMI port for Remote System Power on/off and system monitoring
5. Support NTP for time synchronization & RTC battery backup
6. 1600W (1+1) Redundant High-efficiency Platinum Level Power Supplies
7. Optimized cooling w/ 5x 80x38mm rear hot-swap fans
8. Support front LCD panel for system status & error info (Option)
9. Ideal for Cloud backup, data Replication or High density Archive Storage Applications

For system validation and quality assurance purposes, system configurations require a minimum of 50% of the available drives 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-946SE1C-R1K66JBOD • SuperChassis 946SE1C-R1K66JBOD

Form Factor

• 4U JBOD storage chassis

Dimensions

Height • 7" (178 mm)
Width • 17.2" (437 mm)

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-

Depth	• 30.2" (767.08 mm)
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

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	<ul style="list-style-type: none"> • Power On/Off button • Unit Identification (UID) button
LEDs	<ul style="list-style-type: none"> • 1 Network Activity LEDs • Power Status LED • Power Fail LED • System Information LED

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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Max: 132A / Min: 0.1A (200Vac - 240Vac) • Max: 82A / Min: 0.1A (100Vac - 120Vac)
+12Vsb	• Max: 2A / Min: 0.2A
Power Distributor	<ul style="list-style-type: none"> • PDB-PT946S-824 • O/P: 12V/168A • +5V Max: 25A • +3.3V Max: 25A • -12V Max: 0.6A
Certification	<ul style="list-style-type: none"> •  Platinum 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
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
Control Board	MCP-280-84701-0N	2	SC847D JBOD Mini SAS HD Ext-to-Int adapter ,HF,RoHS/REACH,PBF
Cable(S)	CBL-0042L	1	24 PIN POWER CONNECTOR EXTENTION, 20CM. 18AWG
Cable(S)	CBL-0087	1	Front Control Cable Round 16 pin to 16 pin Ribbon 20
Cable(S)	CBL-0160L	2	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
Cable(S)	CBL-0303L	1	4 pin to 4 pin power cable, S-RA, 40CM. 20AWG
Cable(S)	CBL-0459L	2	AC Power Cord Latch Clamp
Cable(S)	CBL-0481L	2	81CM 30AWG SATA S-S cable
Cable(S)	CBL-CDAT-0601	2	4 Pin to 4 Pin I2C cable, 50cm, 26AWG,RoHS/REACH,PBF
Cable(S)	CBL-CDAT-0841	1	8 pin to 8 pin round SGPIO cable, 81cm, 28AWG, pinout 1-1
Cable(S)	CBL-NTWK-0587	1	CAT 5e RJ45 extension cable for SC847D JBOD internal Male to Female adapter with PCBA 500mm,24AWG,HF,RoHS/REACH,PBF
Cable(S)	CBL-PWCD-0578	2	Power Cord Type IEC (C14 to C13) 3 ft (14AWG), 15A, 250V,HF,RoHS/REACH,PBF
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-220-00117-0B	2	Black gen-3 hot-swap tool-less 2.5- inch HDD tray
Drive Tray(s)	MCP-220-94601-0N	60	SC946ED 3.5" / 2.5" tool-less HDD tray
Power Distributor	PDB-PT946S-824	1	standard 24pin output
Part(s)	MCP-130-00073-0B	1	Plastic holder to hold MCP-280-84701-0N
Power Supply & Accessory	PWS-1K66P-1R	2	1U 1600W Redundant Platinum Power Supply 73.5mm width,RoHS/REACH,PBF
Mounting Rail(s)	MCP-290-00137-0N	1	Rail set, Auto-latch, quick/quick, default 4U 17.2";W
Rear Window	MCP-290-00132-0N	1	
Rear Window	MCP-240-94601-0N	1	
Rear Window	MCP-240-94604-0N	1	SC946S rear window, NO I/O. w/ 6x LP slots

Optional Parts List

	Part Number	Qty	Description
Cable	CBL-SAST-0690	-	2m 12G external Mini SAS HD to external mini SAS HD.28AWG,RoHS/REACH
Cable	CBL-SAST-0677	-	3m 12G external Mini SAS HD to external mini SAS HD.28AWG,RoHS/REACH
LCD	MCP-210-94602-0B	1	3.5" LCD display kit for SC946S