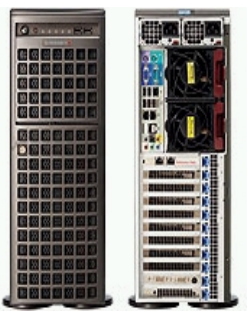
SuperChassis 747TQ-R1620B

Front and Rear View



Available Color

Dark Gray

Manual

Key Features

1. 1620W Redundant Power Supplies **Platinum Level (94%)**
2. 4x dedicated Power Connectors (6pin + 8pin) for High-end GPUs
3. 8x 3.5" Hot-swap SAS/SATA HDDs
4. 11x Full-height, Full-length expansion slots optimized for 4x double width GPU solution
5. Advanced Fan Speed Control
6. Power Switch, Reset Switch & 5 LED Indicators; 2x Front USB 2.0 Ports
7. Highest Quality Chassis Built - Superb Components, Fans, & Power Supply
8. Full SES2 support is available with SAS motherboards and other compatible components.

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

Specifications

Product SKUs	
CSE-747TQ-R1620B	▪ SuperChassis 747TQ-R1620B

Form Factor

Tower / 4U chassis support for DP and UP ATX, E-ATX motherboards: up to size 15.2" x 13.2"

Processor Support

Supports dual, single Intel® / AMD processors

Dimensions	
Width	▪ 18.2" (462mm)
Height	▪ 7" (178mm)
Depth	▪ 26.5" (673mm)
Gross Weight	▪ 62 lbs (28.1kg)
Package (W x H x D)	▪ 26.6" (676mm) x 17.4" (442mm) x 38.6" (981mm)
Available Color	▪ Dark Gray

Expansion Slots

Capable of housing 11x Full-Height, Full-Length expansion cards

Drive Bays	
Hot-swap	▪ 8x 3.5" Hot-swap SAS/SATA Drive Bays ▪ SAS or enterprise SATA HDD only recommended
Peripheral Bay (s)	▪ 3x 5.25" drive bays in storage module - rotates 90° for Rackmount ▪ 1x 3.5" fixed drive bay

SAS / SATA Backplane

SAS / SATA Hard Drive Backplane with SES2

Front Panel	
Buttons	▪ LED Power On/Off button ▪ System Reset button
LEDs	▪ Power status LED ▪ Hard drive activity LED ▪ 2x Network activity LEDs ▪ System Overheat & Power Fail LED
Ports	▪ 2x Front USB 2.0 Ports

Servers (for SC747TQ-R1620B)

7047GR-TRF, 7047GR-TRF-FC475, 7047GR-TPRF-FM475, 7047GR-TPRF, 7047GR-TPRF-FM409, 4027GR-TR

System Cooling	
Fans	▪ 4x 92x38mm 4-pin PWM Middle Cooling Fans ▪ 2x 80x38mm 4-pin PWM Rear Exhaust Fans

System Monitoring

Chassis intrusion switch

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

1620W high-efficiency redundant power supply w / PMBus

AC Input	▪ 1000W Output @ 100-120V, 12-10A, 50-60Hz ▪ 1200W Output @ 120-140V, 12-10A, 50-60Hz ▪ 1620W Output @ 180-240V, 10.5-8A, 50-60Hz
DC Output	▪ 1000W: +12V/84A; +5Vsb/4A ▪ 1200W: +12V/100A; +5Vsb/4A ▪ 1620W: +12V/150A; +5Vsb/4A
Certification	80 PLUS PLATINUM 94% Platinum Certified [Test Report]

Regulatory (Power Supply)	
Power Supply Safety / EMC	▪ USA - UL listed, FCC ▪ Canada - CUL listed ▪ Germany - TUV Certified ▪ Europe/CE Mark ▪ EN 60950/IEC 60950-Compliant

Components

See Parts List

Standard Parts List

	Part Number	Qty	Description
Chassis	CSE-747TQ-R1620B	1	4U Chassis (**Dark Gray**)
Backplane	BPN-SAS-747TQ-O-P	1	4u, SAS Backplane,x8 3.5
Cable 1	CBL-0157L	1	8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF
Cable 2	CBL-0179L	8	SATA CABLE 70CM FLAT S-S PBF. 26AWG
Power Supply	PWS-1K62P-1R	2	1620W REDUNDANT POWER MODULE
Power Distributor	PDB-PT747-4648	1	POWER DISTRIBUTOR FOR SC747 W/ GRAPHIC OUTPUT FEATURE
Accessory	MCP-420-74701-0N	1	SC747 accessory box (2 x power cords)
Cable 3	CBL-0286L	2	4 to 4 pin rear fan pwr ext w / square header, 30cm (PWM). 24AWG
Cable 4	CBL-0216L	4	4 PIN TO 4 PIN MIDDLE FAN POWER EXTENSION, 20cm. 24AWG(PWM)
Cable 5	CBL-0071L	1	ROUND 16 pin TO 16 PIN RIBBON FP CABLE 75cm. 28AWG
Cable 6	CBL-0160L	2	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
Fan 1	FAN-0082L4	2	80x80x38 mm 4-pin PWM Fan Assembly for SC743, SC745
Fan 2	Fan-0114L4	4	92x38mm 4-PIN PWM FAN W/ HUS for SC747
Front Panel	MCP-280-74701-0N	1	Front Panel Control Board for SC747
Drive Tray(s)	MCP-220-00094-0B	8	Black gen 6.5 hot-swap 3.5 inch HDD Tray
Drive Tray(s)	MCP-220-00073-0B	3	Black 5.25 drive tray w /o rail (SC747)
Part(s)	MCP-290-74709-0B	1	Plastic feet (2 pcs/set) for 4U tower chassis, black color
Part(s)	MCP-290-74701-0B	1	Black plastic top cover for SC747
Part(s)	MCP-290-74702-0N	1	GPU Card Holder (11 slots) for SC747TQ, SC842
Part(s)	MCP-290-74703-0B	1	fixed 3.5" dummy cover for SC747
Rear Window	MCP-240-74701-0N	1	SC747 rear window (11 x PCI slots)

Optional Parts List

	Part Number	Qty	Description
Heatsink / Retention	-	-	Please refer to our Thermal Components Matrix
Rails	MCP-290-00059-0B		4U ball bearing quick release rail kit (includes side handles), extendable length 26.5"~36.4"
Short Rails	MCP-290-00058-0N		Quick release rail (ball bearing) extandable length 19"~26.6"
Front Bezel	MCP-210-74703-0B	-	Front bezel cover (for 5.25" bay) for rackmount
HDD Tray	MCP-220-93801-0B	-	Black Hotswap Gen 6 3.5" to 2.5" HDD Tray (SC747, 936, 938 and Blade)

Hide Parts List

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