

SuperChassis 747BTQ-R2K04B



[▶ Chassis Manual](#)

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

Key Features

1. 8x 3.5" SAS/SATA Backplane for Hot-Swappable Drives (Support SES2)
2. 11x Full-Height, Full-Length Expansion Slots Optimized for 4x Double Width GPU Solution
3. Front HDD Door Lock & Side Panel Intrusion Switch
4. Front I/O Ports: 2x USB 3.0
5. (2x) Rear Additional 80mm PWM Fans & (4x) Middle Lower 92mm PWM Fans
6. 4U / Full Tower Chassis Supports max. Motherboard, Sizes
□ E-ATX 15.2" x 13.2" / ATX/Micro ATX
7. 2000W **Redundant Titanium Level** Certified High-Efficiency Power Supply
8. 3x 5.25" External HDD Drive Bays & 8x 3.5" Hot-Swappable HDD Drives

Specifications

Product SKUs

- **CSE-747BTQ-R2K04B** ■ SuperChassis 747BTQ-R2K04B

Form Factor

- 4U tower/rackmount chassis - supports for maximum motherboard sizes: 15.2" x 13.2"

Processor Support

- Single and Dual Intel® / AMD processors

Dimensions

Height ■ 18.1" (460 mm)

Width ■ 7" (178 mm)

Depth ■ 26.5" (673 mm)

Net Weight ■ 60 lbs (27.22 kg)

Gross Weight ■ 62 lbs (28.12 kg)

Packaging (W x H x L) ■ 27.2" (691 mm) x 13" (330 mm) x 38.2" (970 mm)

Available Color ■ Black

Expansion Slots

- 11 full-height & full-length expansion slot(s)

Drive Bays

- 8 x 3.5" hot-sw ap SAS/SATA drive bay with SGPIO

Backplane

- 8-port Tower/4U TQ (W/ AMI 9072) backplane, support up to 8x 3.5-inch SAS/SATA HDD/SSD

Peripheral Drives

- 1 x 90 degree rotatable drive cage
- 3 x standard 5.25" drive bay
- 1 x 3.5" internal fixed drive bay

Front Panel

Buttons ■ Power On/Off button

LEDs ■ 2 Network Activity LEDs

Ports ■ 2x USB 3.0 Port(s)
■ 2x Audio Jack(s)

Systems Cooling

- Fans**
- 2 x 80mm Hot-sw ap PWM Fans
 - 4 x 92mm hot-sw ap fan(s)

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 2000W Titanium Redundant Power Supply W/PMbus

Power Efficiency ■ 96%

Total Output Power and Input

- 1000W with Input 100 - 127Vac
- 1800W with Input 200 - 220Vac
- 1980W with Input 220 - 230Vac
- 2000W with Input 230 - 240Vac
- 2000W with Input 200 - 240Vac

AC Input Frequency ■ 50-60Hz

Dimensions (L x W x H) ■ 336 x 76 x 40 mm

Output Type ■ Backplanes (gold finger)

+12V

- Max: 83.3A (100Vac - 127Vac)
- Max: 150A (200Vac - 220Vac)
- Max: 165A (220Vac - 230Vac)
- Max: 166.7A (230Vac - 240Vac)
- Max: 166.7A (200Vac - 240Vac)

+5Vsb ■ Max: 1A / Min: 0A

Power Distributor

- PDB-PT747-4648
- O/P: 12/212
- +5V Max: 30
- +3.3V Max: 24
- -12V Max: 0.6

Certification



■ Titanium Certified

Regulatory (Power Supply)

Power Supply Safety / EMC

- BSMI
- CCC
- CE/EMC
- FCC class A
- UL/CB
- UL/CUL

Components

Standard Parts List

	Part Number	Qty	Description
HD Backplane	BPN-SAS-747TQ	1	8-port Tower/4U TQ (W/ AMI 9072) backplane, support up to 8x 3.5-inch SAS/SATA HDD/SSD
Cable(s)	CBL-0071L	1	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF
Cable(s)	CBL-0157L	1	8PIN TO 8PIN RIBBON CABLE FOR SGPIO, PB FREE
Cable(s)	CBL-0160L	2	US POWER CORD 16AWG, PB FREE
Cable(s)	CBL-0179L	8	SATA CABLE 70CM FLAT STRAIGHT-STRAIGHT PBF
Cable(s)	CBL-0216L	4	4 TO 4 PIN FAN POWER CABLE, 210MM
Cable(s)	CBL-0286L	2	4 TO 4 PIN REAR FAN PWR EXT W/ SQUARE HEADER, 30CM (PWM)
Part(s)	MCP-230-74701-0B	1	Metal side cover for SC747 (color: Dark Gray)
Part(s)	MCP-270-74701-0B	1	SC747 chassis base
Fan(s)	FAN-0082L4	2	80x80x38 mm 4-pin PWM Fan Assembly for SC743, SC745
Fan(s)	Fan-0114L4	2	92x38mm 4-PIN PWM FAN W/ HUS for SC747
Fan(s)	FAN-0138L4	2	92x92x38 mm, 7.5K RPM, SC747 Middle Fan for Passive Cooling GPU
Front Bezel	MCP-210-74701-0B	1	SC747 plastic front bezel
Front Panel	MCP-280-74702-0N	1	SC747BTQ-R2K04B Front Control Panel PCB (2x USB3.0, Audio)
Drive Tray(s)	MCP-220-00073-0B	3	Black 5.25 drive tray w/o rail (SC747)
Drive Tray(s)	MCP-220-00094-0B	8	Black gen 6.5 hot-sw ap 3.5 inch HDD Tray
Power Distributor	PDB-PT747-4648	1	POWER DISTRIBUTOR FOR SC747 W/ GRAPHIC OUTPUT FEATURE
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
Part(s)	MCP-290-74709-0B	1	Plastic feet (2 pcs/set) for 4U tower chassis, black color
Power Supply & Accessory	PWS-2K04A-1R	2	AC-DC 2000W, Titanium Level, Redundancy, 1U, PMBus 1.2, +12V/+5Vsb, 360x76x40mm,HF,RoHS/REACH

Optional Parts List

	Part Number	Qty	Description
Rail	MCP-290-00059-0B	-	26.5
Short Rail	MCP-290-00058-0N	-	Short rail set, quick release, 19.6"~26.9" Extendable Length
Cable	CBL-0153L	-	6PIN GRAPHIC CARD POWER CABLE, PB FREE
LCD	MCP-220-00095-0B	-	Black 5.25 LCD tray w/o rail, support 1x 3.5 HDD
Add-on Card Holder (11 slots)	MCP-290-74702-0N	-	GPU Card Holder (11 slots) for SC747TQ, SC842
Rear Fan Kit	MCP-320-00046-0N-KIT	-	Rear fan kit (8.2K RPM fan) for SC747B, 835X, 836BH
GPU/Add-on Card Dummy	MCP-240-00096-0N	-	SC747B GPU / Add-on Card Dummy Assembly (2 Slots)-Single Pack