

SuperChassis 825TQC-R1K03LPB



▶ **Chassis Manual**
▶ **Optimization**

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



Key Features

1. 2U chassis supports for maximum motherboard sizes - 13.68" x 13", E-ATX 12" x 13", ATX 12" x 10" motherboards
 2. 8 x 3.5" hot-swap SAS3/SATA drive bay, 2 x 3.5" fixed drive bay
 3. 8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD
 4. 1U 800/1000W Redundant Titanium Single Output Power Supply W/PMbus
 5. 7 low-profile expansion slot(s)
 6. 3 x 80mm heavy duty fan(s) with PWM fan(s) speed control
-

Specifications

Product SKUs

- CSE-825TQC-R1K03LPB
- SuperChassis 825TQC-R1K03LPB

Form Factor

- 2U chassis supports for maximum motherboard sizes - 13.68" x 13", E-ATX 12" x 13", ATX 12" x 10" motherboards

Processor Support

- Dual and Single Intel® and AMD processors

Dimensions

- **Height** 3.5" (89 mm)
- **Width** 17.2" (437 mm)
- **Depth** 25.5" (647 mm)
- **Gross Weight** 52 lbs (23.59 kg)
- **Packaging (W x H x L)** 26.7" (678 mm) x 11.4" (290 mm) x 34.5" (876 mm)
- **Available Color** Black

Expansion Slots

- 7 low -profile expansion slot(s)

Drive Bays

- 8 x 3.5" hot-sw ap SAS3/SATA drive bay
- 2 x 3.5" fixed drive bay

Backplane

- 8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD

Peripheral Drives

- Optional 1 x slim DVD-ROM drive bay
- Optional 2 x USB 2.0 ports
- Optional 1 x COM port tray
- Optional 2 x USB 3.0 ports

Front Panel

- **Buttons** Power On/Off button, System Reset Button
- **LEDs** 2 Network Activity LEDs, HDD activity LED, Power Status LED, Power Fail LED, System Information LED

Systems Cooling

- **Fans** 3 x 80mm heavy duty fan(s) with PWM fan(s) speed control

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 - 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 800/1000W Redundant Titanium Single Output Power Supply W/PMbus

- **Power Efficiency** 96%
- **Total Output Power and Input** 800W with Input 100 - 127Vac, 1000W with Input 200 - 240Vac, 1000W with Input 200 - 240Vdc
- **AC Input Frequency** 50-60Hz
- **Dimensions (L x W x H)** 336 x 76 x 40 mm
- **Output Type** Backplanes (gold finger)
- **+12V** Max: 66.7A (100Vac - 127Vac), Max: 83A (200Vac - 240Vac), Max: 83A (200 - 240)
- **+5Vsb** Max: 4A / Min: 0A
- **Power Distributor** PDB-PT825-8824, O/P: 12V/75, +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
Air Shroud	MCP-310-29001-0N	1	SC825/826/216/213 Intel DP X9,X8 air shroud 13.68x13/12x13
HD Backplane	BPN-SAS3-825TQ	1	8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD
Cable(S)	CBL-0071L	1	CBL,FRONT CNTL,16 TO 16 PIN,RA,RND TUBE,75CM,28AWG
Cable(S)	CBL-0160L	2	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
CD-ROM & Accessory	MCP-290-00007-01	1	Black DVD dummy cover for SC825, 836
Fan(s)	FAN-0181L4	3	80x80x38 mm, 9.4K RPM, Hot-swappable Middle Cooling Fan for X11 Purley Platform Newly Enabled 2U+ Chassis
Front Panel	FPB-FP836-D	1	Front control board Dual color LED(FP836-D)forSC823M,825,825M,828,829,835,836
Drive Tray(s)	MCP-220-00023-01	1	Black USB dummy tray support 1x 2.5" slim HDD for SC825, 836
Drive Tray(s)	MCP-220-00075-0B	8	Black gen 5.5 hot-swappable 3.5"; HDD tray
Drive Tray(s)	MCP-220-82502-0B	2	Black fixed 3.5" HDD tray or FDD dummy tray
Power Distributor	PDB-PT825-8824	1	SC825 24PIN REDUNDANT POWER DISTRIBUTOR
Power Supply & Accessory	PWS-1K03A-1R	2	1U 1000W Redundant Power Supply Titanium W/PMbus 76x40x336mm,RoHS/REACH
Mounting Rail(s)	MCP-290-00053-0N	1	Rail set, quick/quick, default for 2,3U 17.2";W
Rear Window	MCP-240-82506-0N	1	LP Rear Window for SC825,825M,826,213,216

Optional Parts List

	Part Number	Qty	Description
Adaptor Bracket	MCP-120-82503-0N	-	Cable arm adapter for SC825LP,213LP (MCP-290-00073-0N required),HF,RoHS/REACH,PBF
Cable Management Arm	MCP-290-00073-0N	-	Supermicro Cable Management Arm for 2U, 3U and 4U chassis
Rail	MCP-290-00058-0N	-	Short rail set, quick release, 19.6"~26.9" Extendable Length
Front USB	MCP-220-00007-01	-	Black USB/COM port tray for SC825, 836
Front USB	MCP-220-00114-0N	-	Black 2x USB3.0/COM port tray in slim DVD bay,RoHS/REACH
Tray(s)	MCP-290-00036-0B	-	Black DVD dummy tray support 1x2.5 HDD for SC113,815,825,836
Tray(s)	MCP-220-00023-01	-	Black USB dummy tray support 1x 2.5" slim HDD for SC825, 836
Tray(s)	MCP-220-82503-0B	-	Black slim FDD kit for SC825/829,828,835
Cable	CBL-0157L	-	8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF
Cable	CBL-SAST-0699	-	internal mini SAS HD to 4 SATA 12G, 75/75/90/90cm w /75cm SB, S. 30AWG,RoHS/REACH
Cable	CBL-0082L	-	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable	CBL-0296L	-	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable	CBL-0180L-01	-	SET OF 4 SATA 70/59/48/38CM ROUND S-RA, 26AWG
LCD/OLED Solutions	MCP-220-00119-0B	-	2nd Gen Black 3.5" OLED tray, support 1x internal 2.5" HDD
DVD-ROM / DVD-RW	DVM-TEAC-DVD-SBT5	-	BLACK TEAC SLIM DVD SATA DRIVE,HF,RoHS
SATA DVD Kit	MCP-220-81502-0N	-	Slim SATA DVD mounting kit for SC213,219,813,815,818,819,825,828,829,836,842
HDD Tray Converter	MCP-220-00043-0N	-	Black hot-swappable gen 4 3.5 to 2.5 HDD tray
Front Bezel	MCP-210-82503-0B	-	Black SC825 front bezel