



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, optional 2 x 3.5" fixed drive bay, optional 2 x 2.5" hot-swap HDD bay for server chassis
3. 8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD
4. 1U 1200W/1000W Titanium Power Supply W/PMbus W76xL336xH40mm
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-825BTQC-R1K23LPB** ■ SuperChassis 825BTQC-R1K23LPB

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

- 7x Low-profile expansion slot(s)

Drive Bays

- Optional 2x 3.5" fixed drive bay
- 8x 3.5" hot-swap SAS3/SATA drive bay
- Optional 2x 2.5" hot-swap drive bay for server chassis

Backplane

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

Peripheral Drives

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

Front Panel

- **Button** ■ Power On/Off button
- System Reset button

- **LED** ■ Power status LED
- HDD activity LED
- System Information LED
- Power Fail LED
- 2 Network Activity LEDs

Systems Cooling

- **Fans** ■ 3x 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 1200W/1000W Titanium Power Supply W/PMbus W76xL336xH40mm

- **Power Efficiency** ■ 96%
- **Total Output Power and Input** ■ 1200W with Input 200 - 240Vac
- 1000W with Input 100 - 127Vac
- 1200W 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: 100A / Min: 0A (200Vdc - 240Vdc)
- Max: 100A / Min: 0A (200Vac - 240Vac)
- Max: 83A / Min: 0A (100Vac - 127Vac)
- **+5Vsb** ■ Max: 4A / Min: 0A
- **Power Distributor** ■ PDB-PT825-8824
- O/P: 12V/75
- +5V Max: 30A
- +3.3V Max: 24A
- -12V Max: 0.6A

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	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF
Cable(s)	CBL-PWCD-0160-IS	2	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH
Cable(s)	CBL-PWEX-1078	3	PWEX,FAN,1X4/P2.5 TO 1X4/P2.54,20CM,22AWG,5A/PIN,RoHS
Part(s)	MCP-120-00115-0N	7	Blank LP L-bracket with 4x4 vent holes
Part(s)	MCP-290-00088-0N	1	SC119 Intrusion assembly
Part(s)	MCP-230-82501-0N	1	Top cover for SC213,216,825,826,835,836,936,846
CD-ROM & Accessory	MCP-290-00007-01	1	Black DVD dummy cover for SC825, 836
Fan(s)	FAN-0206L4	3	80x80x38 mm, 13.5K RPM, Middle Cooling Fan for 2U and above Servers
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 1x2.5" slim HDD for SC825, 836
Drive Tray(s)	MCP-220-00075-0B	8	Black gen 5.5 hot-swap 3.5" HDD tray
Drive Tray(s)	MCP-220-82502-0B	2	Black fixed 3.5" HDD tray or FDD dummy tray
Drive Tray(s)	MCP-290-82607-0N	1	826B/216B rear dummy cover for 2 X 2.5
Power Distributor	PDB-PT825-8824	1	SC825 24PIN REDUNDANT POWER DISTRIBUTOR
Power Supply & Accessory	PWS-1K23A-1R	2	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 336x76x40 mm,HF,RoHS/REACH
Mounting Rail(s)	MCP-290-00053-0N	1	Rail set, quick/quick, default for 2,3U 17.2";W
Mounting Rail(s)	MCP-290-00060-0N	1	Threaded rail adapter default for round hole rack
Rear Window	MCP-240-82608-0N	1	216B/826B LP rear window,RoHS/REACH,PBF

Optional Parts List

Component	Part Number	Qty	Description
Component	N/A	-	
	CBL-0424L •eStore	-	
Adaptor Bracket	MCP-120-82503-0N •eStore	-	Cable arm adapter for SC825LP,213LP (MCP-290-00073-0N required),HF,RoHS/REACH,PBF
Cable	CBL-0296L •eStore	-	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
	CBL-SAST-0699 •eStore	-	MINI SAS HD-4 SATA,12G,INT,75/75/90/90CM,75CM SB,28/30AWG,Ro
	CBL-0180L-01 •eStore	-	SATA SET OF 4-70/59/48/38CM ROUND S-RA, PBF
	CBL-0157L •eStore	-	8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF
	CBL-0343L-01 •eStore	-	30AWG IPASS/4SATA 76/66/54/45CM W/SB
Cable Management Arm	MCP-290-00073-0N •eStore	-	Supermicro Cable Management Arm for 2U, 3U and 4U chassis
DVD-ROM / DVD-RW	DVM-TEAC-DVD-SBT5	-	BLACK TEAC SLIM DVD SATA DRIVE,HF,RoHS
Front Bezel	MCP-210-82503-0B •eStore	-	Black SC825 front bezel
Front USB	MCP-220-00114-0N	-	Black 2x USB3.0/COM port tray in slim DVD bay,RoHS/REACH
	MCP-220-00007-01	-	Black USB/COM port tray for SC825, 836
HDD Kit	<u>MCP-220-82616-0N</u>	-	12G 2.5x2 Drive Kit w/ Status LED(216B/826B/417B/846X/847B)
HDD Tray Converter	MCP-220-00043-0N	-	Black hot-swap gen 4 3.5 to 2.5 HDD tray
LCD/OLED Solutions	MCP-220-00119-0B	-	2nd Gen Black 3.5" OLED tray, support 1x internal 2.5" HDD
Rail	MCP-290-00058-0N •eStore	-	Short rail set, quick release, 19.6"~26.9" Extendable Length
SATA DVD Kit	MCP-220-81502-0N	-	Slim SATA DVD mounting kit for SC213,219,813,815,818,819,825,828,829,836,842
Tray(s)	MCP-220-82503-0B	-	Black slim FDD kit for SC825/829,828,835
	MCP-220-00023-01	-	Black USB dummy tray support 1x2.5" slim HDD for SC825, 836
	MCP-290-00036-0B	-	Black DVD dummy tray support 1x2.5 HDD for SC113,815,825,836

Motherboard (for CSE-825BTQC-R1K23LPB)

X12DPi-N6

X12DPi-NT6

● = Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible

Red dot & green color = Optimized + Global SKU