



Computer CSE-819TQ-
R700UB 750W 1U
Rackmount Server
Chassis



Super Micro Computer CSE-819TQ-R700UB 750W 1U Rackmount Server Chassis Owner's Manual

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Super Micro Computer CSE-819TQ-R700UB 750W 1U Rackmount Server Chassis



[Chassis Manual \(/manuals/chassis/1U/SC819.pdf\)](/manuals/chassis/1U/SC819.pdf)

Optimization

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

Key Features

- 1U Chassis optimized for 12.8" x 16.5" Resource-Optimized motherboards
- 4 x 3.5" hot-swap SAS/SATA
- SAS or enterprise SATA HDD is only recommended
- 4-port 1U TQ backplane (W/enclosure management), supports up to 4x 3.5-inch SAS/SATA HDD
- 1U 700W hot swap redundant 50mm wide power supply.
- 2 full height expansion slot(s) , 1 low-profile expansion slot(s)
- 5 x 40x56mm PWM fan(s)
- Optional 1 x fan for PCI card cooling

Specifications

Product SKUs

Discontinued SKU. Please contact sales-rep for possible OEM production quantities. MOQ may apply

CSE-819TQ-R700UB

SuperChassis 819TQ-R700UB

Form Factor

1U Chassis optimized for 12.8" x 16.5" Resource-Optimized motherboards

Processor Support

Dual Intel® and AMD processors

Dimensions

Height

1.7" (43 mm)

Width

17.2" (437 mm)

Depth

27.75" (705 mm)

Gross Weight

38 lbs (17.24 kg)

Packaging (W x H x L)

26.2" (665 mm) x 9" (229 mm) x 37.9" (963 mm)

Available Color

Black

Expansion Slots

2 full-height expansion slot(s)

1 low-profile expansion slot(s)

Drive Bays

4 x 3.5" hot-swap SAS/SATA

SAS or enterprise SATA HDD only recommended

Backplane

4-port 1U TQ backplane (W/ enclosure management), support up 4x 3.5-inch SAS/SATA HDD

Peripheral Drives

Optional 1 x slim DVD-ROM drive bay

Optional 1 x USB + COM port tray

Front Panel

Buttons

Power On/Off button

System Reset Button

Unit Identification (UID) button

LEDs

2 Network Activity LEDs

HDD activity LED

Power Status LED

Unit Identification (UID) LED



Systems Cooling

Fans

5 x 40x56mm PWM fan(s)

Optional 1 x fan for PCI card cooling

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 700W hot swap redundant 50mm wide power supply.

Power Efficiency

92%

Total Output Power and Input

700W with Input 100 – 140Vac

750W with Input 180 – 240Vac

AC Input Frequency

50-60Hz

Dimensions (L x W x H)

320 x 50 x 40.25 mm

Output Type

Backplanes (gold finger)

-12V

Max: N/A

+12V

Max: 58A / Min: 0.5A (100Vac – 140Vac)

Max: 62A / Min: 0.5A (180Vac – 240Vac)

+5Vsb

Max: 3A / Min: 0A

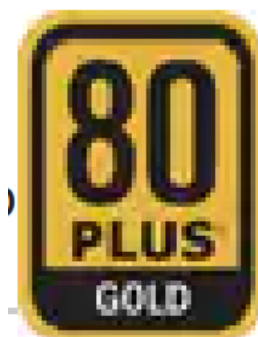
+12Vsb

Max: N/A

Power Distributor

PDB-PT819-8824

Certification



(<http://www.plugloadsolutions.com/80PlusPowerSuppliesDetail.aspx?id=69&type=2>) Gold Certified

Regulatory (Power Supply)

Power Supply Safety / EMC

BSMI

CCC
CE/EMC
FCC Class A
TUV/CB
UL/CUL



Components

Components			
Standard Parts List			
	Part Number	Qty	Description
HD Backplane	BPN-SAS-815TQ	1	4-port 1U TQ backplane (W/ enclosure management), support up to 4x 3.5-inch SAS/SATA HDD
Cable(s)	CBL-0157L	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,RIBBON IN RND TUBE,40CM,28AWG
Cable(s)	CBL-0160L	2	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
Cable(s)	CBL-0180L-01	1	SATA,INT,ROUND,SET OF 4,ST-RA 70/59/48/38CM,26AWG
Cable(s)	CBL-0335L	1	CBL, FRONT CNTL,20 TO 20 PIN, RA,RND TUBE,73CM,28AWG
CD-ROM & Accessory	CSE-PT93L-B	1	Black DVD dummy cover for SC813, 813M, 815, PBF-RoHS
Fan(s)	FAN-0101L4	5	40×56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808
Front Panel	MCP-280-81501-0N	1	Front control board (FP815U) for SC815U
Cooling Fan & Accessory	MCP-320-00027-0B	24	Plastic pin for 40×28, 40×56 fan
Cooling Fan & Accessory	MCP-320-00028-0B	1	Fan holder for 6pcs 40×56 fan, assemble-able for SC819/SC119/SC818/SC116
Cooling Fan & Accessory	MCP-320-00029-0B	1	Fan holder for 0pcs 40×56 fan, assemble-able for SC819/SC119/SC818/SC116
Cooling Fan & Accessory	MCP-340-00035-0B	1	Dummy fan 40x56mm for 40×56 counter-rotating fan (cost-effective)
Drive Tray(s)	MCP-220-00075-0B	4	Black gen 5.5 hot-swap 3.5"; HDD tray
Power Distributor	PDB-PT819-8824	1	SC819 24pin redundant PDB
Part(s)	MCP-160-00007-0N	1	MB Mylar Sheets for SC819, SC119
Power Supply & Accessory	PWS-703P-1R	2	1U REDUNDANT PWS 50MM W PMBUS GOLD EFFICIENCY 50MM

Power Supply & Accessory	MCP-250-00012-0V	1	Redundant PDB cover for SC819, SC119
Mounting Rail(s)	MCP-290-00062-0N	1	Rail set, quick/quick, default for 1U 17.2
Rear Window	MCP-240-81902-0N	1	UIO/WIO rear window for SC819,119 (complete),RoHS/REACH,PBF
Optional Parts List			
	Part Number	Qty	Description
Mounting Rail	MCP-290-00056-0N	–	Quick-release outer rail for square hole short-depth rack (19"~26.4")
Mounting Rail	MCP-290-00052-0N -Bulk	–	25.6" to 33.05" outer rail, /quick, for 1U 17.2" W chassis (10 sets/pack)
Mounting Rail	MCP-290-00054-0N	–	25.6" to 33.05" rail set, quick/quick, for 1U 17.2" W chassis
Peripheral Drive(s)	DVM-PNSC-DVD-S BT3	–	Black slim SATA DVD (8x DVD, 24x CDR), Panasonic
Peripheral Drive(s)	MCP-220-81502-0N	–	Slim SATA DVD kit (include backplane, cable)
Tray(s)	MCP-290-00036-0B	–	Black DVD dummy tray, supports 1x 2.5" slim HDD (9.6 mm thick)
Front Bezel	CSE-PTFB-813LB	–	Front Bezel Cover with Key Lock and Filter, black
Front Bezel	MCP-210-00007-01 (LCD)	–	Front Bezel Cover with Key Lock & Filter, Black, Beige, LCD options
Adaptor HDD carrier	MCP-220-00043-0N	–	Adaptor HDD carrier to install 2.5" HDD in 3.5" HDD tray
Peripheral Drive(s)	CSE-PT93L-B	–	Black DVD dummy cover for SC813, 813M, 815, PBF-RoHS
Peripheral Drive(s)	CSE-PT93L-V	–	Silver DVD dummy cover for SC813, 813M, 815, PBF

Motherboard (for CSE- CSE-819TQ-R700UB)

- H8DGU-LN4F+
- X8DTU-LN4F+
- X8DTU-LN4F+-LR
- X8DTU-6F+
- X8DTU-6TF+
- X8DTU-6F+-LR
- X8DTU-6TF+-LR



=Most optimized Chassis for SuperServer Configuration

Blue color = Compatible

Green color = Global SKU & Compatible
Red dot & green color = Optimized + Global SKU

Servers (for CSE- CSE-819TQ-R700UB)

- 6016T-URF4+
- 6016T-URF4+-LR
- 6016T-NTRF4+
- 6016T-NTRF4+-LR
- 6016T-6RFT+
- 6016T-6RF+-LR

Certain products may not be available in your region

[Global SKU \(/en/products/SMC_global_skus\)](/en/products/SMC_global_skus)

CONTACT

<https://www.supermicro.com/en/products/archive/chassis/SC819TQ-R700UB>

Documents / Resources

	Super Micro Computer CSE-819TQ-R700UB 750W 1U Rackmount Server Chassis [pdf] Owner's Manual CSE-819TQ-R700UB, CSE-819TQ-R700UB 750W 1U Rackmount Server Chassis, CSE-819TQ-R700UB, 750W 1U Rackmount Server Chassis, Rackmount Server Chassis, Server Chassis, Chassis
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References

-  [80 PLUS®. PSU Certification Program | CLEAResult](#)
- [User Manual](#)

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