



Key Features

1. 12x NVMe/ SAS3 Hybrid Drive Bays Provide Ultimate Flexibility
 2. Additional 4x 3.5" Hot-swap SAS3/ SATA3 HDD Bays with Rear 2x 2.5" SAS3/SATA3 HDD option
 3. Enhanced cooling design w/ 4x 8cm 13.5K RPM high-performance fans
 4. Redundant 1600W Titanium Level (96%+) high-efficiency supplies
 5. Optional cable management arm for hot-swap access
 6. 7x Low-profile, Half-length I/O expansion slots
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Specifications

Product SKUs

- **CSE-829HAC12-R1K62LPB** ■ SuperChassis 829HAC12-R1K62LPB

Form Factor

- 2U chassis supports for maximum motherboard sizes - 13.68" x 13.4", 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	■ 27.75" (705 mm)
Gross Weight	■ 62 lbs (28.12 kg)
Net Weight	■ 41.5 lbs (18.82 kg)
Packaging (W x H x L)	■ 25.9" (658 mm) x 10.8" (274 mm) x 39.3" (998 mm)
Available Color	■ Black

Expansion Slots

- 7x Low-profile expansion slot(s)

Drive Bays

- Optional 2x 2.5" hot-swap SAS3/SATA drive bay
- 4x 3.5" hot-swap SAS3/SATA drive bay
- 12x 3.5" hot-swap SAS3/SATA/NVMe drive bay hybrid

Backplane

- 12-Port 2U LFF Backplane Supports 12 x SAS3/SATA3/NVMe4 Storage Devices with 1x(2x4) + 4x(1x4) power connectors, co-lay with BPN-SAS3-LA26A-N12,HF,RoHS
- 4-Port internal SAS3 12Gbps backplane, support up to 4x 3.5-inch SAS3/SATA3 HDD/SSD

Front Panel

Button	■ Power On/Off button ■ System Reset button
LED	■ Power status LED ■ System Information LED ■ Power Fail LED ■ 2 Network Activity LEDs ■ HDD Fail LED

Systems Cooling

- **Fans** ■ 4x 80x38mm hot-swap cooling fan(s)

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

- **Power Distributor** ■ PDB-PT829H-2824
- O/P: 12V/120A
- +5V Max: 45A
- +3.3V Max: 24A
- -12V Max: 0.6A

- **Certification** ■ N/A

Components

Standard Parts List

	Part Number	Qty	Description
HD Backplane	BPN-SAS3-829HA-A4	1	4-port internal SAS3 12Gbps backplane, support up to 4x 3.5-inch SAS3/SATA3 HDD/SSD
HD Backplane	BPN-SAS3-LA26A-N12	1	2U 12-Slot LFF Backplane Supports 12 x SAS3/SATA3/NVMe4 Storage Devices with 1x(2x4) + 4x(1x4) power connectors, co-lay with BPN-SAS3-LA26A-N12,HF,RoHS
Cable(s)	CBL-0277L	2	HDD POWER CABLE (BIG 4 PIN; 32CM), PBF
Cable(s)	CBL-CDAT-0607	1	[NR] FRONT CNTL,20 TO 20 PIN, P0.5, FFC,FLAT, 23.5CM, STD
Cable(s)	CBL-PWCD-0160-IS	2	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH
Cable(s)	CBL-PWEX-0645	2	Big 4 Pin Male to Big 4 Pin Female, Power Extension 15cm
Cable(s)	CBL-PWEX-1078	4	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-120-82920-0N	1	Mid tray side support BKT for SC829H
Part(s)	MCP-230-82902-0N	1	Top middle cover for SC829H
Part(s)	MCP-230-82903-0N	1	Top rear cover for SC829H
Part(s)	MCP-290-00088-0N	1	SC119 Intrusion assembly
Part(s)	MCP-290-82921-0V	1	SC829H Auto-latch right handle
Part(s)	MCP-290-82922-0V	1	2U Auto-latch left handle for SC829H with FPB-FP826-T
Fan(s)	FAN-0166L4	4	80x80x38 mm, 13.5K RPM, Optional Middle Cooling Fan for 2U Ultra Series Servers (Hot-swappable Version of FAN-0162L4)
Fan(s)	FAN-0206L4	4	80x80x38 mm, 13.5K RPM, Middle Cooling Fan for 2U and above Servers
Front Panel	FPB-TB826-T	1	Chassis transfer board for SC826
Drive Tray(s)	MCP-290-82607-0N	1	826B/216B rear dummy cover for 2 X 2.5
Drive Tray(s)	MCP-220-00075-0B	12	Black gen 5.5 hot-swap 3.5" HDD tray
Drive Tray(s)	MCP-220-82902-0N	1	Middle tray plate for SC829H
Drive Tray(s)	MCP-220-82903-0N	4	Internal mid tray with handle for SC829H
Power Distributor	PDB-PT829H-2824	1	2U standard output with 24Pin PDB support up to
Power Supply & Accessory	PWS-1K62A-1R	2	AC-DC 1600W, Titanium Level, Redundancy, 1U, DC Output: +12V and +12Vs, 203 x 73.5 x 40 mm, AC Input: 90 - 264 VAC/47-63Hz, PMBus 1.2 with DSP controller,HF,RoHS/REACH
Mounting Rail(s)	MCP-290-00053-0N-01	1	36"; Rail set for Auto-latch, quick/quick, 2, 3U 17.2";W

Optional Parts List

	Part Number	Qty	Description
Adaptor Bracket	MCP-120-82503-0N •eStore	-	Cable arm adapter for SC825LP,213LP (MCP-290-00073-0N required),HF,RoHS/REACH,PBF
Cable	CBL-SAST-0972 •eStore	-	OCuLink controller to MiniSAS HD backplane V.91,INT,PCIe NVMe SSD, 70CM,34AWG
	CBL-SAST-0929 •eStore	-	OCuLink controller to MiniSAS HD backplane V.91,INT,PCIe NVMe SSD, 57CM,34AWG
Cable Management Arm	MCP-290-00073-0N •eStore	-	Supermicro Cable Management Arm for 2U, 3U and 4U chassis
HDD Kit	<u>MCP-220-82616-0N</u> •eStore	-	12G 2.5x2 Drive Kit w/ Status LED (216B/826B/417B/846X/847B)
HDD Tray Converter	MCP-220-00118-0B •eStore	-	Black gen-5.5 tool-less 3.5-to-2.5 converter drive tray,RoHS/REACH
	MCP-220-00043-0N •eStore	-	Black hot-swap gen 4 3.5 to 2.5 HDD tray
Rail	MCP-290-00058-0N •eStore	-	Short rail set, quick release, 19.6"~26.9" Extendable Length
Tray(s)	MCP-220-00138-0B •eStore	-	Black gen-5.5 tool-less NVMe 3.5-to-2.5 drive tray, Orange tab

Motherboard (for CSE-829HAC12-R1K62LPB)

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