Dell Storage SC Series Expansion Enclosures

Versatile, high-performance storage that delivers ongoing economic value for organizations of all sizes

Scale on demand

Store more data, increase efficiency, and help reduce your overall TCO with Dell Storage SC Series including the new enterprise-ready Dell Storage SC9000, Compellent™ SC8000, Dell Storage SC4020 and Dell Storage SCv2000 Series arrays. Easily add capacity to your SC Series arrays with flexible and efficient enclosures, starting with any amount of storage capacity, from terabytes to over 3PB raw capacity and up to 960 back-end drives per system.[1]

Future flexibility

Intermix different drive types (SAS, NL-SAS and SSD) in the same enclosure, with a variety of expansion form factor options. Choose from the 2U 12-drive, 24-drive enclosure or the ultra-dense 84-drive, 5U enclosure. Adding a new enclosure is simple — the new

drives can be automatically assimilated into the existing virtualized pool or set up as their own standalone pool. Easily evolve from one configuration to another without having to replace drives.

Advanced efficiency

The SC Series expansion enclosures help lower data center power requirements with redundant, hot-swappable power supplies, and better protect your data with cooling efficiencies. The SC Series arrays offer built-in software technology like auto-tiering or RAID tiering and thin provisioning that can lower costs and save storage space. Additionally, award-winning installation and support services can ensure your deployment and SC Series environment runs smoothly.

SC Series enterprise-ready expansion enclosures

Expansion enclosure	SC200	SC220	SC400	SC420	SC280
Supported controllers	SC9000 SC8000 SC4020	SC9000 SC8000 SC4020	SC9000	SC9000	SC9000 SC8000 SC4020
Controller-enclosure connection (dual modules)	6Gb SAS	6Gb SAS	12Gb SAS	12Gb SAS	6Gb SAS
Drive slot size	3.5"[2]	2.5"	3.5"[2]	2.5"	3.5"
Max drives per enclosure	12	24	12	24	84
Max capacity per enclosure	72TB	92.16TB	72TB	92.16TB	504TB
Form factor	2U	2U	2U	2U	5U
Intermixed drive type support	Yes	Yes	Yes	Yes	7.2K HDD only

SAS drive support	SC200	SC220	SC400	SC420	SC280
	3.5" HDD 2TB, 7.2K 3TB, 7.2K 4TB, 7.2K 4TB, 7.2K SED 6TB, 7.2K 6TB, 7.2K SED **2.5" Write-intensive SSD**[2] 200GB 400GB 1.6TB **2.5" Premium Read-intensive SSD**[2] 1.92TB	**2.5" HDD** 300GB, 15K 600GB, 15K 600GB, 15K SED 600GB, 10K 900GB, 10K 1.2TB, 10K 1.2TB, 10K SED 1.8TB, 10K 1.8TB, 10K SED 1TB, 7.2K 1TB, 7.2K SED **2.5" Write-intensive SSD** 200GB 400GB 800GB 1.6TB 1.6TB SED **2.5" Premium Read-intensive SSD** 480GB 960GB 1.6TB 1.92TB **2.5" Mainstream Read-intensive SSD** 480GB 960GB 1.92TB 3.84TB	**3.5" HDD** 4TB, 7.2K 6TB, 7.2K 6TB, 7.2K SED **2.5" Write-intensive SSD**[2] 1.6TB 1.6TB SED **2.5" Premium Read-intensive SSD**[2] 1.92TB **2.5" Mainstream Read-intensive SSD**[2] 3.84TB	**2.5" HDD** 600GB, 15K 600GB, 15K SED 1.2TB, 10K 1.2TB, 10K SED 1.8TB, 10K 1.8TB, 10K SED **2.5" Write-intensive SSD** 400GB 800GB 1.6TB 1.6TB SED **2.5" Premium Read-intensive SSD** 480GB 960GB 1.92TB **2.5" Mainstream Read-intensive SSD** 480GB 960GB 1.92TB 3.84TB	**3.5" HDD** 4TB, 7.2K 4TB, 7.2K SED 6TB, 7.2K 6TB, 7.2K SED

Chassis	SC200	SC220	SC400	SC420	SC280
Height x width x depth	8.7 cm (3.43 in) x 48.2cm (18.98 in) x 59.4 cm (23.39 in)	8.7 cm (3.43 in) x 48.2 cm (18.98 in) x 54.1 cm (21.30 in)	8.7 cm (3.43 in) x 48.2 cm (18.98 in) x 59.4 cm (23.39 in)	8.7 cm (3.43 in) x 48.2 cm (18.98 in) x 54.1 cm (21.30 in)	22.23 cm (8.8 in) x 48.26 cm (19 in) x 91.44 cm (36 in)
Weight at maximum configuration	28.39 kg (62.6 lb)	23.31 kg (51 lb)	28.39 kg (62.6 lb)	23.31 kg (51 lb)	130.7 kg (287.5 lb)
Weight at empty	8.84 kg (19.5 lb)	8.61 kg (19 lb)	8.84 kg (19.5 lb)	8.61 kg (19 lb)	62 kg (136.68 lb)
Rack support	ReadyRails™ II static rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting				Built-in rack support

Power	SC200	SC220	SC400	SC420	SC280
Power/wattage	Two 700W hot-swappable, redundant power supplies; 450W maximum draw		Two 600W hot-swappable, redundant power supplies; 450W maximum draw		Two 2184W hot-swappable, redundant power supplies; 1800W maximum power
Heat dissipation	2,389 BTU/hr (at 700W) 1,621 BTU/hr		2,047 BTU/hr (at 600W) 1,621 BTU/hr		7,455 BTU/hr (at 2184W) 6,144 BTU/hr
Voltage	100-240 VAC, auto sensing				208 - 240 VAC, auto sensing
Frequency	50/60 Hz				50/60 Hz
Amperage	8.6 A at 100 V, 4.3 A at 240 V Maximum power draw: 74 amps				7.4 A at 241V Max

Environmental operating conditions	SC200	SC220	SC400	SC420	SC280
Operating temperature	10° to 35°C (50° to 95°F) with no direct sunlight on the equipment. Maximum temperature gradation of 20°C per hour				5˚C to 35˚C (41˚F to 95˚F)
Non-operating temperature	−40 to 65°C (−40 to 149°F) at a maximum altitude of 12,000 m (39,370 ft)				-40˚C to 70˚C (-40˚F to 158˚F)
Operating humidity ranges (non-condensing)	10% to 80% (non-condensing) with 29°C (84.2°F) maximum dew point				
Non-operating humidity (non-condensing)	5% to 95% (non-condensing) with 33°C (91°F) maximum dew point				
Inlet type	0 to 3,048 m (0 to 10,000 ft) NOTE: Up to 35°C/95F maximum temperature is reduced by 1°C/300 meter (1°F/547 feet) above 950 meters (3,117 feet)				

SCv2000 Series expansion enclosures

Expansion enclosure	SC100	SC120	SC180
Supported controllers	SCv2000, SCv2020	SCv2000, SCv2020	SCv2080
Controller-enclosure connection (dual modules)	6Gb SAS		
Drive slot size	3.5"	2.5"	2.5" or 3.5"
Max drives per enclosure	12	24	84 (the minimum number HDDs or SSDs is 28; drives can be added in increments of 14 due to thermal consideration)
Max capacity per enclosure	72TB	96TB	504TB
Form factor	2U	2U	5U
Intermixed drive type support	Yes	Yes	Yes

SAS drive support	SC100	SC120	SC180
Drive capacities	**3.5" HDD** 2TB, 7.2K 4TB, 7.2K 6TB, 7.2K **2.5" HDD[2]** 1.8TB 10K **2.5" Premium Read-intensive SSD[2]** 1.92TB	**2.5" HDD** 300GB 15K 600GB 15K 600GB 10K 900GB 10K 1.2TB 10K 1.8TB 10K **2.5" Write-intensive SSD** 200GB 400GB 800GB 1.6TB **2.5" Premium Read-intensive SSD** 480GB 960GB 1.92TB **2.5" Mainstream Read-intensive SSD** 480GB 960GB 1.92TB 3.84TB	**3.5" HDD** 2TB 7.2K 4TB 7.2K 6TB 7.2K **2.5" HDD[2]** 1.2TB 10K 1.8TB 10K **2.5" Premium Read-intensive SSD[2]** 480GB 960GB 1.92TB

Chassis	SC100	SC120	SC180
Height x width x depth	8.79 cm (3.46 in) x 48.2 cm (18.98 in) x 57.6 cm (22.67 in)	8.79 cm (3.46 in) x 48.2 cm (18.98 in) x 52.3 cm (20.59 in)	22.230 cm (8.8 in) x 48.26cm(19 in) x 91.44 cm (36 in)
Weight at maximum configuration	28.9 kg (63.9 lb)	24 kg (53 lb)	130.1 kg (287 lb)
Weight empty	20.6 kg (45.4 lb) minus drives	18.7 kg (41 lb) minus drives	62.1kg (137 lb) minus drives
Rack support	ReadyRails™ II static rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting		Built-in rack support

Power	SC100	SC120	SC180
Power/wattage	580W	580W	2800W
Heat dissipation	1980 BTU	1980 BTU	9554 BTU
Voltage	100-240 VAC	100-240 VAC	200-240 VAC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Amperage	7.6-3.0A (x2)	7.6-3.0A (x2)	8.6-4.3A (x2)
Environmental operating conditions	**SC100**	**SC120**	**SC180**
Operating temperature	10° to 35°C (50° to 95°F) with no direct sunlight on the equipment; maximum temperature gradation of 20°C per hour		
Non-operating temperature	–40 to 65°C (–40 to 149°F) at a maximum altitude of 12,000 m (39,370 ft)		
Operating humidity ranges (non-condensing)	10% to 80% (non-condensing) with 29°C (84.2°F) maximum dew point		
Non-operating humidity (non-condensing)	5% to 95% (non-condensing) with 33°C (91°F) maximum dew point		
Inlet type	0 to 3,048 m (0 to 10,000 ft) NOTE: Up to 35°C maximum temperature is reduced by 1°C/300 m (1°F/547 ft) above 950 m (3,117 ft)		

End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.

OEM-ready version available

From bezel to BIOS to packaging, your storage arrays can look and feel as if they were designed and built by you.[3] For more information, visit Dell.com/OEM.

[1] Available with the SC9000, SC8000 and SC4020 controller environments. The SCv2000 offers up to 168 drives and 504TB.
[2] Requires 3.5" drive carriers for 2.5" drives.
[3] OEM-ready available on certain models.

Learn More at Dell.com/SCseries