



Dell Compellent SC280 Dense Enclosure

High capacity, cost-optimized storage for your data center

Store more data, increase efficiency, and help reduce the cost of storage per terabyte with the Dell™ Compellent™ SC280 dense enclosure — the densest storage enclosure from any major storage vendor in its class.¹ Multiple SC280 and two Storage Center™ systems can scale to provide a 2PB SAN and NAS solution in a single 48U rack. Plus, Dell Compellent can help you tier data from high-performance, flash-optimized storage to the high-capacity, cost-optimized SC280 enclosure, all within a single array.

Efficiency that drives your data center

The high-density Dell Compellent SC280 enclosure is up to 2.8 times denser than traditional 2U 3.5" disk-drive enclosure solutions, offering 67.2TB of storage per rack unit. Easily increase storage capacity for your Dell Compellent Storage Center SAN and Compellent FS8600 NAS environments with the scalable SC280 enclosure, and optimize your IT budget. The SC280 is equipped with spare drives to help ensure business continuity as part of a resilient, highly available solution that's backed by industry-leading support. Compellent's automated tiering technology places less frequently accessed data on the cost- and space-efficient SC280 enclosure to help you lower your infrastructure costs without compromising the performance of your frequently accessed data storage.

Designed for extreme density

The SC280 provides extreme density within a small footprint enclosure, and has the best rack unit density of any major storage solution. The dense form factor of the SC280 helps reduce operating expenses by storing up to 336TB in a 5U footprint to help maximize floor space utilization in your data center. The SC280 has two power supplies, five hot-swappable fans for power and cooling, and redundant hot-swappable 6Gb SAS I/O modules for availability. With a two-drawer drive bay design, with each drawer holding up to 42 hot-swappable drives, the enclosure offers two configurations for its 4TB 7.2K SAS HDDs — either partially populated with 42 drives or fully populated with 84 drives.

Scale on demand

Deploying and managing your data center is challenging — the sheer amount of data that has to be stored, backed up and archived is growing exponentially. As an all-in-one, fast-write bulk storage solution, the SC280 provides an ideal solution for your large-scale enterprise and co-location deployments, as well as file workflows including radiology, life sciences and media archival. You can have two SC280 enclosures per loop, five enclosures per Storage Center system with 400 active drives, and up to 1.6PB of raw capacity. The SC280 enclosure is compatible with the Dell Compellent SC200, SC220 and Flash-optimized solutions². Address your data center growth challenges with the ultra-dense Compellent SC280 enclosure to provide high-capacity, low-cost storage for your SAN and NAS unified storage requirements.

Maximize data center floor space and reduce operating expenses by storing up to 336TB in the 5U Dell Compellent SC280 dense enclosure.

Feature	Compellent SC280 technical specification
Controller hardware	Dell Compellent SC8000
Software	Dell Compellent Storage Center 6.4 or later
Scalability	Can hold either 84 or 42 SAS HDD 3.5" 4TB drives per enclosure
Capacity	Up to 336TB per 5U enclosure
Drives	SAS HDD 3.5" 4TB drives
Height	22.230 cm (8.8 in)
Width	48.260 cm (19 in)
Depth	91.44 cm (36 in)
Weight	130.7 kg (287.5 lb) maximum configuration
Power/wattage	Two 2184W hot-swappable power supplies; 1800W maximum power
Heat dissipation	6,143 BTU/hr maximum (five hot-swappable fans)
Voltage	208-240 VAC
Frequency	50/60Hz
Amperage	7.4 A at 241V maximum current
Operating temperature	5 °C to 35 °C (41 °F to 95 °F)

¹ Based on February 2013 internal Dell analysis comparing SC280 to comparable 2U 3.5" disk drive enclosures (ad#G13001371).

² Two SC280 enclosures are supported on the same I/O chain/loop. SC200 and SC220 enclosures can be connected to the same 6Gb SAS I/O card in the controller as an SC280, but must be on a different chain/loop.

Global services and support

Dell Services can help reduce IT complexity, lower costs, and eliminate inefficiencies by making IT and business solutions work harder for you. The Dell Services team delivers distinctive capabilities, including Copilot support and optimization as well as full data migration solutions to facilitate consolidation from multiple file systems. Dell takes a holistic view of your needs and designs solutions for your environment and business objectives while using established delivery methods, local talent and in-depth domain knowledge to help lower your total cost of ownership.

Dynamically unify your data center. Visit Dell.com/Compellent.

© 2013 Dell Inc. All rights reserved. Dell, the DELL logo, the DELL badge, and Compellent are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. This document is for informational purposes only. Dell reserves the right to make changes without further notice to any products herein. The content provided is as is and without express or implied warranties of any kind.

August 2013

