



Dell Compellent SC200 and SC220 Enclosures

Scalable and efficient expansion for block and file storage

Dell™ Compellent™ offers customers an agile, high-performance storage platform that delivers ongoing economic value. With its open, scalable hardware platform, Compellent allows you to intermix the latest industry-standard drive technologies in the same array with the energy-efficient SC200 and SC220 expansion enclosures. You can also introduce new and emerging technologies over time and on the fly to support your SAN and NAS environments and scale up and out on demand without disruption or downtime.

Scale on a single, modular hardware platform

Easily add capacity to your Dell Compellent Storage Center™ SAN and NAS environments with flexible and efficient SC200 and SC220 enclosures that offer performance and capacity options to meet your data center requirements. With Dell Compellent drives and enclosures, your organization can start with any amount of storage capacity and expand over time — from terabytes to nearly 2PB — only replacing components for new technology upgrades. You can easily combine drive and enclosure technologies to build a storage solution that optimizes capacity for maximum efficiency with a minimal footprint. Incorporating new technologies is as simple as plugging in new components. Plus, with the 2U 6Gb SAS SC200 and SC220 expansion enclosures, you can seamlessly scale your Dell Compellent Storage Center capacity, and build a complete end-to-end Dell hardware solution that can support up to 960 back-end SAS drives per system.

Select the right enclosures for your environment

The SC200 supports a combination of up to 12 hot-pluggable 3.5" SAS HDDs and SSDs, and can yield a total of 48TB raw capacity per enclosure with 4TB drives. The SC220 supports up to 24 hot-pluggable 2.5" drives with 38.4TB raw maximum capacity per expansion enclosure with the 1.6TB SSD. The SC220 also supports Flash-optimized solutions using both hard disk drives (HDDs) and solid-state drives (SSDs). Each drive bay within the SC200 and SC220 can be individually configured for speed and capacity.

Help lower power requirements with redundant, hot-swappable 80 PLUS® Silver-certified power supplies, and better protect your data with the cost-efficient Fresh Air technology supported by the SC200 and SC220 enclosures. For high-capacity requirements, Compellent also offers the SC280 dense enclosure.

Flexible drive options for storage expansion

With Compellent, you can intermix SAS and Fibre Channel HDDs, and SSDs including multi-level cell (MLC) and single-level cell (SLC) SSDs in the same array. Simply choose the drive types, capacities, form factors, transfer rates and rotational speeds that best meet your business and application needs. You can always add more capacity on the fly to accommodate changing business requirements. The system adjusts automatically, restriping data across all drives in the array.

No matter the combination of drives, your storage environment remains optimized with true storage virtualization. All drives are abstracted and aggregated across the array, creating a high-performance pool of shared storage. Multiple I/O requests are processed in parallel, minimizing bottlenecks. Adding automated tiered storage software further increases efficiency and performance by keeping highly active data on high-performance storage — such as the Flash-optimized SC220 solution — and placing less active data on high-capacity HDD storage — such as on the SC220, SC200 or the ultradense SC280 enclosures — all within a single array.

Easily add capacity to your Dell Compellent Storage Center SAN and NAS environments with flexible and efficient SC200 and SC220 enclosures

| Feature | Compellent SC200 technical specification | Compellent SC220 technical specification |
|---------------------------------|--|--|
| Controller hardware | Dell Compellent SC8000 or Series 40 | |
| Software | Dell Compellent Storage Center 6.2 or later | |
| Scalability | Each 3.5" SAS enclosure holds up to 12 SAS drives | Each 2.5" SAS enclosure holds up to 24 SAS drives |
| Maximum capacity | 48TB per 2U enclosure | 38.4TB per 2U enclosure |
| Height | 8.7 cm (3.43 in) | |
| Width | 48.2 cm (18.98 in) | |
| Depth | 59.4 cm (23.39 in) | |
| Weight | 28.39 kg (62.6 lb) (maximum configuration) 8.84 kg (19.5 lb) (empty) | 23.31 kg (51 lb) (maximum configuration) 8.61 kg (19 lb) (empty) |
| Power/wattage | 700W hot-swappable 80 PLUS Silver-certified power supplies 450W maximum draw | 700W hot-swappable 80 PLUS Silver-certified power supplies 475W maximum draw |
| Heat dissipation | 2,389 BTU/hr at 700W 1,536 BTU/hr maximum at 450W | 2,389 BTU/hr at 700W 1,621 BTU/hr maximum at 475W |
| Voltage | 100-240 VAC, auto sensing | |
| Frequency | 50/60 Hz | |
| Amperage | 8.6 A at 100 V 4.3 A at 240 V | |
| SAS SSD | 200GB SAS 400GB SAS | 200GB SAS 400GB SAS (write-intensive SLC SSD for the SC220 Flash-optimized solution) 1.6TB SAS (read-intensive MLC SSD for the SC220 Flash-optimized solution) |
| SAS HDD | 450GB 15K RPM 600GB 15K RPM 2TB 7.2K RPM 3TB 7.2K RPM 4TB 7.2K RPM | 146GB 15K RPM 300GB 15K RPM 600GB 10K RPM 900GB 10K RPM 1TB 7.2K RPM |
| Fibre Channel HDD (3.5") | 300GB 15K RPM 600GB 15K RPM | N/A |
| Rack | ReadyRails™ II static rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooling mounting in 4-post threaded-hole racks | |

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.

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