# Dell Storage SCv2000 Series

The Dell Storage SCv2000 Series is a feature-rich, entry-level storage array in the Storage Center family of products. This series offers affordable storage with several core SC software features, offering the best performance and protection in its class[1] with integrated data protection to meet entry-level requirements. The SCv2000 Series is the perfect blend of high-performance and high-quality data storage at an affordable price.

## High performance at an affordable price

The SCv2000 offers an interesting suite of core SC software including proven data protection, RAID tiering that can optimize capacity, data migration services and multiprotocol connectivity. With feature-rich software options, the SCv2000 balances the need for low cost per terabyte with an outstanding 85K IOPS in a 2U enclosure.[1]

The high performance and high quality of the entry-level SCv2000 Series is perfect for small and medium businesses needing primary storage, or for project-based storage offering an affordable introduction into the scalable Storage Center family. The total cost of ownership is minimized over the life of the product with the opportunity to expand up into the rest of the SC product stack as business needs grow and data requirements increase, needing higher-end, enterprise-class features. Data is protected, affordable and scalable with the SCv2000 Series.

## Future flexibility with SC

The SCv2000 offers future flexibility as an entry-level storage array within the existing SC family of products. This series joins a market space where growth and flexibility can collide, making purchase decisions and product investments a challenge. The SCv2000 leverages existing investments through data migration to enterprise-level products within the SC product line, serving today's needs while focusing on a tomorrow's growth strategy.

As a part of the Storage Center product line, the management of all SC products is streamlined into a single, consistent interface. Optimize IT resources with Enterprise Manager by managing through a single pane of glass — from the entry-level SCv2000 to the enterprise-level SC4020 and SC8000.

For an enhanced, simplified out-of-the box experience, you can deploy SC storage arrays with a simple wizard-based tool, minimizing the need for IT expertise for small businesses or improving data center administration by getting projects up and running quickly.

Flexibility is one of the key benefits to the SCv2000 Series. It offers a variety of connectivity protocols including a multiprotocol option that works with existing architecture, while planning for data growth. Scale capacity when needed with the benefit of no capacity licensing, choosing from a broad range of hard drives or SSDs, configured for a variety of applications.

## Integrated data protection

Protecting data is as integral to storage as performance and affordable capacity. The SCv2000 Series offers optional data protection software with Remote Instant Replay, Local Instant Replays and Replay Manager. Tight integration with common application environments, like Microsoft and VMware, help to simplify virtualized data centers, allowing local and remote data protection features within these applications to take consistent snapshots of virtual machines without sacrificing performance. With up to 2000 snapshots and 500 replications, data is safeguarded.[2] These more granular data protection options minimize the amount of data that is at risk and can improve recovery point objectives.

## Available options

The SCv2000 Series offers a variety of options and models to meet various requirements. It is available with Fibre Channel, iSCSI or SAS connectivity, and can be configured with 12 3.5-inch drive bays or 24 2.5-inch drive bays in a 2U chassis or a dense 5U model with up to 84 drive bays.

| Product Configurations | SCv2000 | SCv2020 | SCv2080 |
|---|---|---|---|
| Internal Storage | 12 x 3.5" drive bays | 24 x 2.5" drive bays | 84 x 2.5" or 3.5" drive bays |
| Supported expansion enclosures | Dell SC100: 12 x 3.5" or 2.5" drive bays<br>Dell SC120: 24 x 2.5" drive bays<br>Dell SC180: 84 x 2.5" or 3.5" drive bays | Dell SC100: 12 x 3.5" drive or 2.5" bays<br>Dell SC120: 24 x 2.5" drive bays<br>Dell SC180: 84 x 2.5" or 3.5" drive bays | Dell SC100: 12 x 3.5" or 2.5" drive bays<br>Dell SC120: 24 x 2.5" drive bays<br>Dell SC180: 84 x 2.5" or 3.5" drive bays |
| Maximum drive count | 168 (12 internal, plus 156 external) | 168 (24 internal, plus 144 external) | 168 (84 internal, plus 84 external) |
| Total storage capacity | 1008TB based on maximum number of drives (168) and current largest capacity supported drives | 902TB based on maximum number of drives (168) and current largest capacity supported drives | 1008TB based on maximum number of drives (168) and current largest capacity supported drives |
| Supported drive types | HDD: 7.2K RPM; SSD: write-intensive, read-intensive (different drive types, transfer rates and rotational speeds can be mixed in the same system) | HDD: 15K, 10K, 7.2K RPM; SSD: write-intensive, read-intensive (different drive types, transfer rates and rotational speeds can be mixed in the same system) | HDD: 10K, 7.2K RPM; SSD: write-intensive, read-intensive (different drive types, transfer rates and rotational speeds can be mixed in the same system) |
| Controllers | Single or dual controllers | Single or dual controllers | Dual controllers |
| Processor | Intel™ Xeon™ 4-core | Intel Xeon 4-core | Intel Xeon 4-core |
| Memory | 8GB per controller | 8GB per controller | 8GB per controller |
| Network/server connectivity (front-end) | 2 x 16Gb FC ports per controller<br>4 x 8Gb FC ports per controller<br>4 x 1Gb iSCSI (BASE-T) ports per controller<br>2 x 10Gb iSCSI (BASE-T) ports per controller<br>4 x 12Gb SAS ports per controller | 2 x 16Gb FC ports per controller<br>4 x 8Gb FC ports per controller<br>4 x 1Gb iSCSI (BASE-T) ports per controller<br>2 x 10Gb iSCSI (BASE-T) ports per controller<br>4 x 12Gb SAS ports per controller | 2 x 16Gb FC ports per controller<br>4 x 8Gb FC ports per controller<br>4 x 1Gb iSCSI (BASE-T) ports per controller<br>2 x 10Gb iSCSI (BASE-T) ports per controller<br>4 x 12Gb SAS ports per controller |
| Internal drive connectivity (back-end) | 6Gb SAS ports (2 per controller) | 6Gb SAS ports (2 per controller) | 6Gb SAS ports (2 per controller) |
| **Technical Highlights** | | | |
| Product OS | Storage Center 6.6.2 | Storage Center 6.6.2 | Storage Center 6.6.2 |
| Server OS | Microsoft® Windows Server®, SLES, VMware®, Citrix® XenServer®, and Red Hat® | Microsoft Windows Server, SLES, VMware, Citrix XenServer, and Red Hat | Microsoft Windows Server, SLES, VMware, Citrix XenServer, and Red Hat |
| RAID | Supports RAID 5, 6, RAID 10 and RAID 10 DM (dual mirror). Any combination of RAID levels can exist on a single Storage Center. Multiple RAID levels can exist on the disk folder within an array. | Supports RAID 5, 6, RAID 10 and RAID 10 DM (dual mirror). Any combination of RAID levels can exist on a single Storage Center. Multiple RAID levels can exist on the disk folder within an array. | Supports RAID 5, 6, RAID 10 and RAID 10 DM (dual mirror). Any combination of RAID levels can exist on a single Storage Center. Multiple RAID levels can exist on the disk folder within an array. |
| **Management** | | | |
| | Enterprise Manager (included, server-installable), Enterprise Manager Chargeback, Replay Manager, vCenter Operations Manager plug-in, command-line interface | Enterprise Manager (included, server-installable), Enterprise Manager Chargeback, Replay Manager, vCenter Operations Manager plug-in, command-line interface | Enterprise Manager (included, server-installable), Enterprise Manager Chargeback, Replay Manager, vCenter Operations Manager plug-in, command-line interface |
| **Power** | | | |
| 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) |

| Chassis | | | |
|---|---|---|---|
| Rack size | 2U | 2U | 5U |
| Height | 8.79 cm (3.46 inches) | 8.79 cm (3.46 inches) | 22.230 cm (8.8 inches) |
| Width | 48.2 cm (18.98 inches) | 48.2 cm (18.98 inches) | 48.260 cm (19 inches) |
| Depth | 57.6 cm (22.67 inches) | 52.3 cm (20.59 inches) | 91.44 cm (36 inches) |
| 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 |
| **Environmental Operating Conditions** | | | |
| 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 | 10° to 35°C (50° to 95°F with no direct sunlight on the equipment Maximum temperature gradation of 20°C per hour | 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) | –40 to 65°C (–40 to 149°F) at a maximum altitude of 12,000 m (39,370 ft) | –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 | 10% to 80% (non-condensing) with 29°C (84.2°F) maximum dew point | 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 | 5% to 95% (non-condensing) with 33°C (91°F) maximum dew point | 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 meter (1°F/547 feet) above 950 meters (3,117 feet) | 0 to 3,048 m (0 to 10,000 ft) NOTE: Up to 35°C maximum temperature is reduced by 1°C/300 meter (1°F/547 feet) above 950 meters (3,117 feet) | 0 to 3,048 m (0 to 10,000 ft) NOTE: Up to 35°C maximum temperature is reduced by 1°C/300 meter (1°F/547 feet) above 950 meters (3,117 feet) |

## Global services and support

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]Based on February 2015 competitive review and Dell performance testing the SCv2000 FC array with 24 write intensive SSDs using IOmeter with 8KB random reads. Actual performance will vary on the workload and drive type.

[2]Based on February 2015 Dell testing of the SC6.6.1 SCv2000 array. Actual performance may vary based on the workload and drive type.

[3]OEM-ready available on certain models.

# Enjoy feature-rich, entry-level storage at Dell.com/SCv2000.

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