

Key Benefits

- Multiplies the throughput of business-critical transactions from 2x to 10x
- Reduces total cost of transaction-intensive applications
- Combines memory-based access speed with the persistence of disk
- Supports Fibre Channel configurations for servers, clusters and SANs

SD3000/SD3000X2

Solid Data SD3000/SD3000X2

The SD3000 and SD3000X2 are the world's fastest data access solution for Fibre Channel connected servers, clusters and storage area network (SAN) environments. They boost server performance by up to 10 times in transaction-intensive applications while enabling more efficient utilization of the customer's server and storage investments.

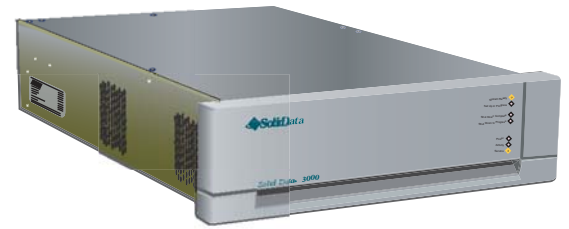
Both SSD models provide extremely fast, random-access storage for frequently accessed application data such as message queues, transaction logs and database indexes, enabling customers to multiply the throughput of mission-critical application servers. When deployed on a SAN, the SD3000 or SD3000X2 serves as non-volatile shared storage for the most transaction-intensive applications, and as a repository for critical infrastructure data such as file-system metadata and virtual-storage address tables.

In addition to improvements in application throughput and total cost of ownership, the SD3000 and SD3000X2 systems improve the reliability, scalability, and manageability of response-critical data. The system's advanced design provides persistent, non-volatile data retention and easy configuration with standard device drivers. Designed with internal high-bandwidth data paths and dual Fibre Channel connections with path failover, both models support direct-connect, arbitrated loop and switched fabric mode configurations with up to 103.1GB of high-performance data capacity per enclosure. Scales up to 12 terabytes with additional SSDs.

Speed and Persistence

The SD3000 and SD3000X2 deliver data at extremely high data rates, with access time less than 10 microseconds. To do this, both models store the data on memory arrays that incorporate Solid Data's third-generation Zero Latency Transfer (ZLT) architecture. This executes the data-handling processes in hardware, minimizing microprocessor overhead. The ZLT architecture delivers extremely fast response times for transaction, database and messaging applications. At the same time, the high-bandwidth data paths and dual Fibre Channel connections support resource sharing at high speeds in server clusters and SANs.

Along with its memory-based access speed, the SD3000 and SD3000X2 provide the persistence of disk storage by incorporating a built-in data retention system, which protects the data in the absence of line power. These SSD systems include the only fully redundant and hot swappable on-board UPS battery back-up systems for SSDs in the industry. An embedded disk drive for data recovery, as well as intelligent backup control logic complete this enterprise class product.

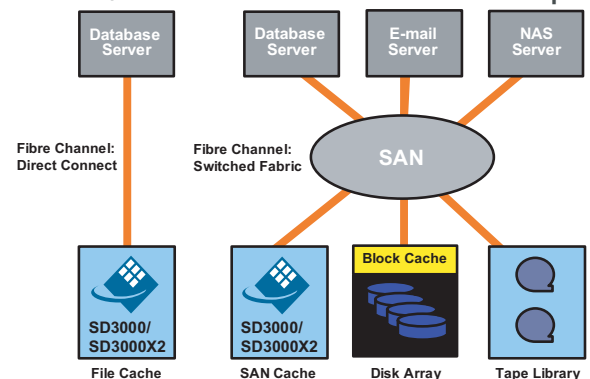


Robust Data Protection

For the protection of business-critical data, the SD3000 and SD3000X2 incorporates multiple levels of data protection, including:

- Patented Data Retention System™ includes on-board hard disk and automatic backup control logic. In the event of a power failure, batteries provide uninterrupted power to the memory arrays. After a prescribed time period, the system moves all data onto the internal disk for indefinite retention. When power is restored, the data is automatically transferred back to the memory arrays and accessible upon transfer completion.
- Memory arrays with patented on-the-fly error detection and correction.
- Redundant, hot-swappable power supplies, batteries, and cooling fans for enterprise level system availability.
- Hot-swappable data retention disk drive for quick migration to a standby system. Background diagnostics conducted periodically to verify operational status. The disk drive is also powered down during normal operation for energy savings and reduced operating temperatures.

SD3000/SD3000X2 Fibre Channel Connection Examples



SD3000/SD3000X2

Powerful Remote Management

The SD3000 and SD3000X2 incorporate extensive monitoring and management features. An integrated system monitors component removals and insertions, status changes, voltages, fan speeds, enclosure temperature, memory error correction events and other conditions.

The remote monitoring functions support lights-out operation and continuous remote monitoring. A system integrator or operator can configure SNMP traps to send alerts when exception conditions are detected. This capability includes a Predictive Health Notification function that monitors potentially disruptive conditions and issues alerts before they become problems. In addition to SNMP, these models support e-mail notifications as well as a password-protected web browser interface for anytime, anywhere viewing of status information.

Each SSD also incorporates remote configuration management features that enable administrators to log in and change configuration settings using a remote management workstation or web browser.

Easy Installation and Operation

The SD3000 and SD3000X2 provide industry-standard Fibre Channel connections. No special device drives are required. Installation is fast and easy; the SSD can be implemented as part of a new platform deployment or to increase the transaction performance of an existing system. After connecting the SSD and verifying operation in a supported configuration, simply move the selected hot files onto the system and it is ready to go. There is no need to re-engineer applications or make extensive changes to business processes. If you're not sure which files to move, Solid Data can provide software tools and application expertise to assist in targeting the hot files to place onto the SSDs for optimal overall system performance.

Why Solid State Disk is Better Than...

| RAM | CACHE | DISK |
|----------------|-----------------|-----------------------|
| * Non-volatile | * File vs Block | * Zero Latency |
| * Shareable | * Non-volatile | * Zero Seek Time |
| * Scalable | * Scalable | * Access 1000x Faster |

For additional information,
visit Solid Data at www.soliddata.com
or email Solid Data at info@soliddata.com

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| Specifications | SD3000/X2 |
|--|----------------|
| Capacity (GB) | |
| Minimum | 4.3 / 17.2 |
| Maximum | 51.5 / 103.1 |
| Host Interface Options | |
| Fibre Channel ports | 2 |
| Supported Fibre Channel Configurations | |
| Switched Fabric (FC-SW) | Yes |
| Arbitrated Loop (FC-AL) | Yes |
| Direct Connect | Yes |
| Performance | |
| Access Time (microseconds) | Less than 10 |
| Maximum IOPs per port ¹ | 66,000 |
| Seek Time | 0 |
| Latency | 0 |
| Patented Direct Addressing™ | Yes |
| Data Protection | |
| Patented Data Retention System™ | |
| On-Board UPS | Yes |
| Hot-swappable Data Retention Disk | Yes |
| Automatic Backup Control | Yes |
| Backup/Restore Rate (GB/minute) | 1.75 |
| Redundant, Hot-Swappable Power Supplies | Yes |
| Power Input Sources (power cords) | 2 |
| Patented Error Detection/Correction (bytes corrected per 512 byte sector) | 64 |
| Remote Management | |
| Password Protection | Yes |
| Automatic Predictive Health Notification™ | Yes |
| Monitored Parameters | 94 |
| Management Alerts (SNMP/Email/Ethernet) | 56 |
| Maximum IP Alert Addresses | 10 |
| Web Browser and Serial Based Management | Yes |
| Power Requirements (AC) | |
| Voltage (VAC, autoranging) | 90-132/180-264 |
| Frequency (Hz, single phase) | 50/60 |
| Maximum Power Consumption (Watts) | 250 |
| Power Connectors (2) | NEMA 5-15 |
| LUN Management | |
| LUNs Supported | 64 |
| LUN Mapping | Yes |
| LUN Masking | Yes |
| Physical | |
| Width (in/mm) | 19.0/482.6 |
| Height | |
| Rack Units | 3U |
| Measure (in/mm) | 5.25/133.3 |
| Max Depth (in/mm) | 27.5/700 |
| Max Weight (lbs/kg) | 90/40.8 |
| Environmental | |
| Ambient Temperature (F/C) | 32-104/0-40 |
| Relative Humidity (non-condensing) | 0-90% |
| Altitude (feet/meters, above sea level) | |
| Operating | 10,000/3,048 |
| Non-operating | 40,000/12,192 |
| Regulatory Compliance | |
| UL, C-UL, FCC, VDE/TUV, VCCI | Yes |

¹Excludes server overheads

