

S3700 SATA MLC Enterprise SSDs

Consistent high performance in a heavy endurance design



Solid-state drives (SSDs) serve an integral role in data acceleration and optimizing storage for an efficient data center. With increasing demands for lower latency and faster throughput, data center SSDs are being designed for workload performance. As flash memory technology continues to evolve, SSD design choices should be made specific to the requirements of an application workload to maximize storage optimization in delivering value that can ultimately tie to bottom line improvement.

The S3700 SATA MLC Enterprise SSDs for System x® are designed for write-intensive workloads such as database, HPC, virtualization, and Big Data. The SSDs feature the newest Intel controller and leading edge 25 nm high endurance eMLC flash technology that delivers consistent high performance with heavy endurance along with end-to-end data protection for the data center.

Consistent high performance

Workloads benefit from the 50/65 μ s typical latency with 4 KB random read performance of up to 75,000 IOPS and write performance to 36,000 IOPS. Bandwidth R/W performance is a fast 500 MBps/650 MBps.

High endurance technology

Next generation enterprise-grade SSD technology that is based on 25 nm eMLC flash and Intel's latest controller technology. Designed for write-intensive, heavy endurance workloads delivering a 10 DWPD endurance up to 14.6 PB TBW for 800 GB capacity.

End-to-end data protection

Assuring integrity of the data lifecycle by protecting against possible data corruption and power loss. Also protecting data in transit and improving data assurance with data redundancy technology as well as support for AES-256 encryption.



Specifications

| | |
|-----------------------------|--|
| Part number/capacity | 41Y8331/S3700 200 GB SATA 2.5-inch MLC HS Enterprise SSD 41Y8351/S3700 200 GB SATA 2.5-inch MLC SS Enterprise SSD 41Y8336/S3700 400 GB SATA 2.5-inch MLC HS Enterprise SSD 41Y8356/S3700 400 GB SATA 2.5-inch MLC SS Enterprise SSD 41Y8341/S3700 800 GB SATA 2.5-inch MLC HS Enterprise SSD 41Y8361/S3700 800 GB SATA 2.5-inch MLC SS Enterprise SSD 41Y8366/S3700 200 GB SATA 1.8-inch MLC Enterprise SSD 41Y8371/S3700 400 GB SATA 1.8-inch MLC Enterprise SSD |
|-----------------------------|--|

| | |
|------------------------------------|---|
| Form factor | 1.8-inch, 2.5-inch, 3.5-inch |
| Interface | 6 GBps SATA |
| NAND technology | 25 nm eMLC |
| Target application workload | Write-intensive such as database, HPC, virtualization, and Big Data |
| Max performance | |
| Random reads @ 4 KB | 75,000 IOPS |
| Random writes @ 4 KB | 36,000 IOPS |
| Endurance (TBW) | 200 GB: up to 3,650 TB 400 GB: up to 7,300 TB 800 GB: up to 14,600 TB |

Why System x

System x is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. System x also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

For more information

To learn more about the S3700 SATA MLC Enterprise SSDs, contact your Lenovo representative or Business Partner, or visit the following website: ibm.com/systems/x/options/storage/solidstate/s3700_sata_mlc/index.html

NEED STORAGE?

Learn more about LenovoEMC
lenovoemc.com

NEED SERVICES?

Learn more about Lenovo Services
lenovo.com/services

© 2014 Lenovo. All rights reserved.

Availability: Offers, prices, specifications and availability may change without notice. Lenovo is not responsible for photographic or typographic errors. **Warranty:** For a copy of applicable warranties, write to: Warranty Information, 500 Park Offices Drive, RTP, NC, 27709, Attn: Dept. ZPYA/B600. Lenovo makes no representation or warranty regarding third-party products or services. **Trademarks:** Lenovo, the Lenovo logo, ThinkServer are trademarks or registered trademarks of Lenovo. Microsoft and Windows are registered trademarks of Microsoft Corporation. Intel, the Intel logo, Intel Core, Core Inside, Xeon and Xeon Inside are registered trademarks of Intel Corporation in the U.S. and other countries. Other company, product, and service names may be trademarks or service marks of others. Visit <http://www.lenovo.com/lenovo/us/en/safecomp.html> periodically for the latest information on safe and effective computing.

IBM x86 products are now products of Lenovo in the U.S. and other countries. Learn more at ibm.com/lenovo-acquisition

