

# S3500 SATA MLC Enterprise Value SSDs

Consistent performance and storage optimization in an efficient 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 designed for workload performance. As flash memory technology continues to evolve, SSD design choices should be specific to requirements of a data center application workload to maximize storage optimization in delivering value that can ultimately tie to bottom line improvement.

The S3500 SATA MLC Enterprise Value SSDs for System x® are designed for read-intensive application workloads such as internet, content delivery, and data analytics. The SSDs feature the newest Intel controller and leading-edge 20 nm MLC flash technology that delivers efficient and consistent high performance for the data center.

## Fast and consistent performance

Workloads benefit from a 50  $\mu$ s typical latency and 4 KB random read performance of up to 75,000 IOPS. Performance comes with low-active read power (less than 1.3 W) allowing further improvement in data center efficiency with reduced energy costs.

## Optimized for efficiency

By combining the latest 20 nm MLC NAND flash memory technology with Intel's latest controller technology, the design of S3500 SATA MLC Enterprise Value SSDs delivers consistent performance, reduced power consumption, and end-to-end data protection as well as being optimized for IOPS/watt and cost/IOPS.

## End-to-end data protection

These SSDs help assure integrity of the data lifecycle by protecting against possible data corruption and power loss. Also they protect data in transit and help improve data assurance with data redundancy technology as well as support for AES-256 encryption.



## Specifications

Part number/ capacity	00AJ000/S3500 120 GB SATA 2.5-inch MLC HS Enterprise Value SSD 00AJ020/S3500 120 GB SATA 2.5-inch MLC SS Enterprise Value SSD 00AJ005/S3500 240 GB SATA 2.5-inch MLC HS Enterprise Value SSD 00AJ025/S3500 240 GB SATA 2.5-inch MLC SS Enterprise Value SSD 00AJ010/S3500 480 GB SATA 2.5-inch MLC HS Enterprise Value SSD 00AJ030/S3500 480 GB SATA 2.5-inch MLC SS Enterprise Value SSD 00AJ015/S3500 800 GB SATA 2.5-inch MLC HS Enterprise Value SSD 00AJ035/S3500 800 GB SATA 2.5-inch MLC SS Enterprise Value SSD 00AJ040/S3500 80 GB SATA 1.8-inch MLC Enterprise Value SSD 00AJ045/S3500 240 GB SATA 1.8-inch MLC Enterprise Value SSD 00AJ050/S3500 400 GB SATA 1.8-inch MLC Enterprise Value SSD
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Form factor	1.8-inch, 2.5-inch
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Interface	6 GBps SATA
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NAND technology	20 nm MLC
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Target application workload	Read-intensive
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### Max Performance

Random Reads @ 4KB	75,000 IOPS
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Random Writes @ 4KB	11,000 IOPS
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## 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. In addition, the S3500 SATA MLC Enterprise Value SSDs are part of the ServerProven® program, enabling compatibility among a variety of partner products.

## For more information

To learn more about the S3500 SATA MLC SSDs, visit: [ibm.com/systems/x/options/storage/solidstate/s3500\\_sata\\_mlc/index.html](http://ibm.com/systems/x/options/storage/solidstate/s3500_sata_mlc/index.html) or contact your Lenovo representative or Business Partner

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