120GB, 240GB, 480GB, 800GB SATA MLC Enterprise Value SSDs

Engineered for balanced performance and endurance in a cost efficient design

An emerging methodology in storage optimization for the datacenter is the tuning of flash storage environments for an optimal balance of performance, endurance, and cost efficiency to improve scalability for increasing workload types while also enabling a reduced storage TCO. The results are greater application and data acceleration driven by efficient flash storage architecture delivering in an improved ROI and operating margin to the data center and to the business.

120 GB, 240 GB, 480 GB, 800 GB SATA MLC Enterprise Value SSDs are next generation solid-state technology engineered for balanced performance and endurance in a cost efficient design. Purpose built with scalability for a variety of random workload types, growing performance demands are consistently met with reliability and low cost of ownership. This delivers economic and performance value into x86 solutions such as big data, cloud, virtualization and workloads such as database and caching.

Balanced performance

Random 4 K R/W performance of up to 65,000 Read IOPS and 35,000 Write IOPS, the highest balance of random write performance and endurance in a value class enterprise SSD.

Optimized endurance

MLC NAND optimized for increased TBW - Endurance rating of up to 2.4 DWPD for five years. Benefits are improved drive life and scalability delivered in a cost efficient design that promotes improved ROI.

Enterprise-class features

Enterprise-class features such as end-to-end data path protection and power loss protection for data at rest + data in flight assure data integrity at the storage device level.

lenovo.

Specifications

Form factor	1.8-inch, 2.5-inch, 3.5-inch
Interface	SATA 6 Gbps
NAND technology	128 Gbit 20 nm MLC NAND
Active power	120 GB, 240 GB, 480 GB: <6.0 W (TYP) and 800 GB: <6.3 W (TYP)
Random 4 K Read / Write	120 GB: 63,000 / 23,000 IOPS 240 GB: 63,000 / 33,000 IOPS 480 GB: 63,000 / 35,000 IOPS 800 GB: 65,000 / 24,000 IOPS
Endurance TBW	120 GB: 0.5 PB 240 GB: 1.0 PB 480 GB: 1.9 PB 800 GB: 1.9 PB

Workload scalable

Broad System x® server support with 120/240/480/800 GB capacities in 1.8-inch, 2.5-inch, 3.5-inch form factors for easy integration into the storage hierarchy. Scalable to handle the performance demands of a variety of mixed-random workload types and data caching roles.

For more information

To learn more about the 120 GB, 240 GB, 480 GB, 800 GB SATA MLC Enterprise Value SSDs, contact your Lenovo representative or Business Partner, or visit: **ibm.com**/systems/x/ options/storage/solidstate/m500dc/index.html

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