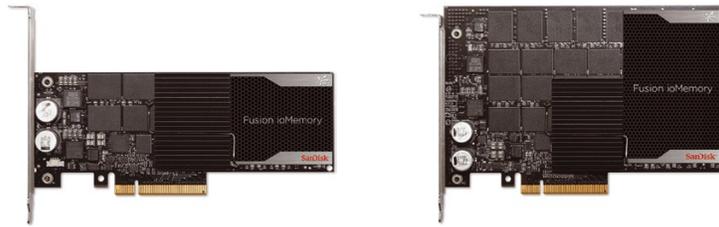# ENTERPRISE AND ENTERPRISE VALUE IO3 FLASH ADAPTERS

Aligning performance and endurance with workload requirements

▶ ADDRESS THE BOTTLENECK

Technology advancements such as multi-core processors and high-speed interconnects have enabled more processing power in servers. However, this has created new challenges. One of those challenges is to address the bottlenecks in the computing system due to lower performance of mechanical hard drives in disk arrays or controllers. Storage architectures such as solid-state drive- (SSD) based PCIe adapters help to address this challenge.

▶ DO MORE FASTER

Engineered for application acceleration through innovative software advancements, the third-generation Fusion-io flash adapters for System x® deliver much higher performance than typical solid-state devices at a fraction of the cost and space, making it a perfect fit for a broad range of applications. These new flash adapters deliver twice the capacity of the previous genera-tion, up to 6.4 TB, while also delivering increased perfor-mance and one of the fastest write performances of any flash medium currently in the market.

▶ ALIGNING PERFORMANCE

The Enterprise and Enterprise Value io3 PCIe Flash Adapters are designed for the application of solid-state storage to web-scale and cloud data centers. Delivering high-speed, low latency, and high efficiency, the new line of flash adapters brings scalable and optimized performance to distributed architectures at low cost.

BENEFITS

Benefits of the Enterprise and Enterprise Value io3 PCIe Flash Adapters include:

- Highest density of up to 6.4 TB of flash memory
- High performance design for ultimate application acceleration for database, VDI, cloud, Hyperscale, and big data.
- Investment protection
- Ease of use

WHY LENOVO

Lenovo 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. Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

SPECIFICATIONS

	Enterprise io3 Flash Adapters	Enterprise Value io3 Flash Adapters
PART NUMBER	00AE995 1000 GB Enterprise io3 Flash Adapter 00AE998 1300 GB Enterprise io3 Flash Adapter 00JY001 2600 GB Enterprise io3 Flash Adapter 00JY004 5200 GB Enterprise io3 Flash Adapter	00AE983 1250 GB Enterprise Value io3 Flash Adapter 00AE986 1600 GB Enterprise Value io3 Flash Adapter 00AE989 3200 GB Enterprise Value io3 Flash Adapter 00AE992 6400 GB Enterprise Value io3 Flash Adapter
BUS INTERFACE	PCIe 2.0 x8	
ENDURANCE (PBW)	12 (1 TB), 16 (1.3 TB), 32 (2.6 TB), 64 (5.2 TB)	4 PBW to 22 PBW
USABLE CAPACITIES	1 TB, 1.3 TB, 2.6 TB, 5.2 TB	1.25 TB, 1.6 TB, 3.2 TB, 6.4 TB
RAN. READ IOPS (4K)	196,000 (1 TB), 235,000 (1.3 TB), 350,000 (2.6 TB), 285,000 (5.2 TB)	196,000 (1.25 TB), 235,000 (1.6 TB), 350,000 (3.2 TB), 285,000 (6.4 TB)
RAN. WRITE IOPS (4K)	330,000 (1 TB), 375,000 (1.3 TB), 385,000(2.6 TB, 5.2 TB)	330,000 (1.25 TB), 375,000 (1.6 TB), 385,000(3.2 TB, 6.4 TB)
READ ACCESS LATENCY	92µs	92µs
WRITE ACCESS LATENCY	15µs	15µs
BUS INTERFACE	PCIe 2.0 x8	
ENDURANCE (PBW)	12 (1 TB), 16 (1.3 TB), 32 (2.6 TB), 64 (5.2 TB)	4 (1.25 TB), 5.5 (1.6 TB), 11 (3.2 TB), 22 (6.4 TB)
WEIGHT	5.2 ounces (1 TB, 1.3 TB, 2.6 TB), 7.25 ounces (5.2 TB)	5.2 ounces (1.25 TB, 1.6 TB, 3.2 TB) 7.25 ounces (6.4 TB)
FORM FACTOR	Low profile (1 TB, 1.3 TB, 2.6 TB), Standard height, half-length (5.2 TB)	Low profile (1.25 TB, 1.6 TB, 3.2 TB), Standard height, half-length (6.4 TB)
WARRANTY	1 year	1 year

FOR MORE INFORMATION

To learn more about the Enterprise and Enterprise Value io3 Flash Adapters, contact your Lenovo representative or Business Partner or visit **lenovo.com**/systems

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