Data Sheet

Pulsar.2™

MLC-Enabled, Enterprise SSD—
From the Enterprise Storage Leader

Key Advantages

• Best-in-class MLC endurance (up to 10 full drive writes per day)
• Price-performance and reliability benefits
• Ensures data integrity during unexpected power loss, and Protection Information (PI)¹ (SAS only) protects against inadvertent data change
• Provides the same feature set to look, feel and act like an enterprise hard drive—reducing system complexity and operating costs
• 6Gb/s SAS and SATA 6Gb/s support for interface scalability and reliability
• World-class service, support and fulfillment
• Optional Self-Encrypting Drive model (800GB SAS only) helps protect data upon drive retirement, repurposing or loss.²

Best-Fit Applications

• Tier 0, performance-hungry enterprise applications—virtualization, OLTP, data warehousing and cloud computing
• Blade servers, general servers and direct-attached storage
• Enterprise architectures using auto-tiering

¹ May require PI-compliant host or controller support.
² Self-Encrypting Drive model not available in all countries. May require TCG-compliant host or controller support.
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Data center managers must provide faster data storage and access without incurring data corruption or loss. They must also achieve this while juggling tight IT budgets and managing highly complex system environments. The Seagate® Pulsar.2™ SSD is an enterprise-class, MLC-enabled, high-capacity (up to 800GB) solid state drive that delivers the price-performance and reliability benefits needed by Tier 0 performance-hungry enterprise applications. And it does so while ensuring consistently fast performance and low response times.

Enterprise-Class Endurance and Data Integrity

Performance is important, but endurance and data integrity are critical. The Pulsar.2 SSD can routinely complete ten full drive writes per day, for a total bytes written score (TBW) of 15 petabytes (for an 800GB drive over the life of the device). The Pulsar.2 drive has been designed for the enterprise environment with the intelligence to automatically detect and correct a multitude of data errors that can occur during normal drive operation to deliver the highest levels of enterprise-class data integrity. Additional endurance features include:

- Advanced media-management technology and Protection Information (PI is SAS only) to help protect against unexpected data change or loss
- Background media scanning to help protect against read disturb data errors
- Power-loss data protection to help ensure data is not lost or inadvertently changed during unexpected power loss
- Wear-leveling algorithms to ensure that every block on the NAND is written to an equal number of times and as evenly as possible to maximize the life of the device
- Garbage collection techniques to identify the next best block on the NAND flash to erase and rewrite before the space is actually needed

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