

Product Overview

Savvio® 15K.2

Highest-performing, greenest drive for enterprise storage systems

Key Features and Benefits

- 115 percent improvement in system-level performance over 3.5-inch 15K drives
- Seagate® PowerTrim™ technology dynamically reduces power up to 70 percent over comparable 3.5-inch 15K drives.
- IOPS/W are 2.5 times better than comparable 3.5-inch Tier-1 drives
- 70 percent smaller size than 3.5-inch drives reduces overall system cooling costs.
- Only second-generation 2.5-inch 15K enterprise drive available with field-proven reliability
- Supports 6-Gb/s transfer rates and SAS 2.0 feature set
- Self-Encrypting Drive (SED) option cuts IT drive retirement expenses while securely protecting data and is one of the easiest, most cost-effective security measures you can implement.*
- Enables economical, high-performance storage system solutions
- Delivers on Seagate Unified Storage architecture strategy to converge best-of-breed technologies (SAS, small form factor and SED security*) to enable powerful yet simple external storage and internal server storage solutions that enable business sustainability while cutting TCO and boosting ROI.

Key Applications

- High-performance enterprise servers and storage arrays
- Transaction-intensive OLTP and database applications
- Blade, rack and tower servers
- Embedded enterprise applications (i.e., medical, industrial and military)
- Power-constrained data centers
- Space-constrained data centers
- Government-grade, data-at-rest security (when drives leave your control)*
- Drive retirement cost reduction and drive life extension strategies*

*Requires TCG-compliant host or controller support



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Fast and then some

The Seagate Savvio 15K.2 drive delivers more transactional performance density than any other drive in the world because it is the highest-performing, greenest drive available for enterprise storage systems. By enabling the use of more than twice the drives per the same rack configuration as 3.5-inch 15K drives, the 2.5-inch Savvio 15K.2 drive delivers more than twice the system performance. This is especially important in high-performance and blade servers demanding optimized RAID performance per U. Building on the Savvio line's industry-leading MTBF of 1.6 million hours, the Savvio 15K.2 drive provides outstanding second-generation reliability.

The Savvio 15K.2 drive also offers the advanced SAS 2.0 interface and operates at 6-Gb/s transfer rates. SAS 2.0 provides the next generation of signal and data integrity features, making SAS ideally suited for use in high-end network storage applications. The SAS 2.0 feature set and 6-Gb/s transfer rate support larger topologies by connecting more expanders, host bus adapters and RAID controllers within or across more storage arrays; by communicating over longer distances with high signal integrity; and by moving data two times faster, thereby doubling data throughput.

Specifications

Capacities (GB)	146 and 73
Interface	SAS 2.0 (6 Gb/s)
Cache (MB)	16
Spindle Speed (RPM)	15,000
Power (W, idle)	4.1 (146 GB); 3.7 (73 GB)

Lower power requirements = lower costs

The Savvio 15K.2 drive with PowerTrim technology uses 70 percent less power than a 3.5-inch 15K drive for the lowest power profile of any high-performance 15K mission-critical, Tier-1 drive. It is 70 percent smaller than comparable 3.5-inch drives, which contributes to its lower power profile. This enables more system airflow, which results in lower cooling costs. The 2.5-inch drive advantages translate into reduced total cost of ownership to IT organizations and administrators who want to optimize their data center power and performance efficiency.

Government-grade security available*

Delivering on the Seagate commitment to add security features throughout its product portfolio, the Savvio 15K.2 drive is offered with a Self-Encrypting Drive (SED) security option that provides government-grade, data-at-rest protection through the hard drive's entire life cycle.*

*Requires TCG-compliant host or controller support

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