

Savvio® 10K.6

Data Sheet

Enterprise Performance 10K HDD — The Perfect Performance Upgrade

- Transition from slower 2.5 inch, 10K-RPM or lower-capacity 3.5 inch, 15K-RPM hard drives to smaller, faster, best-in-class Savvio 10K.6 enterprise hard drives.
- PowerChoice™ technology for T10-compliant power management enables IT organisations to tailor systems for performance and power consumption.
- First mission-critical HDD to offer the Seagate® RAID Rebuild™ technology option — making RAID recovery faster and safer.
- Protection Information (PI) protects against inadvertent data change.¹
- Self-Encrypting Drive (SED) models can be used as standard drives or as part of a more secure solution.
- Seagate Instant Secure Erase (ISE) technology makes it safe, fast and easy to retire, repurpose and sell drives.
- High capacity and small footprint enable data centres to keep pace with data growth and optimise data centre property.
- FIPS 140-2, Level 2 certified SED models — only from Seagate — make FIPS 140-2 compliance quick and easy for US and Canadian government agencies.^{2,3}
- Seagate Unified Storage architecture reduces complexity and cost by converging disparate interfaces, form factors and security standards.

Best-fit Applications

- Mission-critical servers and external storage arrays
- Power- and space-constrained data centres
- Green IT and drive-retirement cost reduction initiatives
- Compliance or data security initiatives
- Migration from 3.5 inch drive systems to next-generation technology



¹ Protection Information (PI) feature requires PI-compliant host or controller support.

² Not all drives may be available in all countries. SED and SED FIPS 140-2 Validated drives may use TCG-compliant host or controller support.

³ FIPS 140-2 in review. See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmvp/validation.html#05>

Specifications	900 GB ^{1,2}	600 GB ^{1,2}	450 GB ^{1,2}	300 GB ^{1,2}
SED Model Number	ST900MM0026	ST600MM0026	ST450MM0026	ST300MM0026
SED FIPS 140-2 Model Number	ST900MM0036 ³			
Interface	6Gb/s SAS	6Gb/s SAS	6Gb/s SAS	6Gb/s SAS
Capacity				
Formatted 512 Bytes/Sector (GB)	900	600	450	300
External Transfer Rate (MB/s)	600	600	600	600
Performance				
Spindle Speed (RPM)	10K	10K	10K	10K
Average Latency (ms)	2.9	2.9	2.9	2.9
Sustained Transfer Rate				
Outer to Inner Diameter (MB/s)	204 to 125	204 to 125	204 to 125	204 to 125
Cache, Multi-segmented (MB)	64	64	64	64
Configuration/Reliability				
Discs	3	2	2	1
Heads	6	4	3	2
Non-recoverable Read Errors per Bits Read	1 per 10 ¹⁶	1 per 10 ¹⁶	1 per 10 ¹⁶	1 per 10 ¹⁶
Annualised Failure Rate (AFR)	0.44%	0.44%	0.44%	0.44%
Power Management				
Typical Op (amps) +5V/+12V	0.41/0.49	0.41/0.44	0.40/0.43	0.41/0.40
Power Idling (watts)	3.9	3.4	3.4	3.0
Environmental				
Temperature, Operating (°C)	5 to 55	5 to 55	5 to 55	5 to 55
Temperature, Non-operating (°C)	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock, Operating: 11ms (Gs)	40	40	40	40
Shock, Non-operating, 2ms (Gs)	400	400	400	400
Acoustics Idling (bels — sound power)	3.0	3.0	3.0	3.0
Vibration, Operating: <500Hz (Gs)	0.5	0.5	0.5	0.5
Vibration, Non-operating: <500Hz (Gs)	3.0	3.0	3.0	3.0
Physical				
Height (in/mm, max) ⁴	0.591/15.00	0.591/15.00	0.591/15.00	0.591/15.00
Width (in/mm, max) ⁴	2.760/70.10	2.760/70.10	2.760/70.10	2.760/70.10
Depth (in/mm, max) ⁴	3.955/100.46	3.955/100.46	3.955/100.46	3.955/100.46
Weight (lb/kg)	0.467/0.212	0.487/0.221	0.489/0.222	0.479/0.217
Carton Unit Quantity	30	30	30	30
Cartons per Pallet	50	50	50	50
Cartons per Layer	10	10	10	10
Warranty				
Limited Warranty (years)	5	5	5	5

¹ One gigabyte, or GB, equals one billion bytes; and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

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⁴ These base deck dimensions conform to the Small Form Factor Standard (SFF-8201) found at www.sffcommittee.org. For connector-related dimensions, see SFF-8223 (SAS models).



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