

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 organizations 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
- High capacity and small footprint enables data centers to keep pace with data growth and optimize data center real estate.
- Seagate Unified Storage architecture reduces complexity and costs by converging disparate interfaces and form factors.

Best-Fit Applications

- Mission-critical servers and external storage arrays
- Power- and space-constrained data centers
- Green IT initiatives
- Migration from 3.5-inch drive systems to next-generation technology

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



Specifications	900GB ¹	600GB ¹	450GB ¹	300GB ¹
Base Models	ST900MM0006	ST600MM0006	ST450MM0006	ST300MM0006
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) Cache, Multisegmented (MB)	204 to 125 64	204 to 125 64	204 to 125 64	204 to 125 64
Configuration/Reliability				
Disks	3	2	2	1
Heads	6	4	3	2
Nonrecoverable Read Errors per Bits Read	1 per 10E16	1 per 10E16	1 per 10E16	1 per 10E16
Annualized 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 Idle (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, Nonoperating (°C)	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock, Operating: 11ms (Gs)	40	40	40	40
Shock, Nonoperating: 2ms (Gs)	400	400	400	400
Acoustics Idle (bels—sound power)	3.0	3.0	3.0	3.0
Vibration, Operating: <500Hz (Gs)	0.5	0.5	0.5	0.5
Vibration, Nonoperating: <500Hz (Gs)	3.0	3.0	3.0	3.0
Physical				
Height (in/mm, max) ²	0.591/15.00	0.591/15.00	0.591/15.00	0.591/15.00
Width (in/mm, max) ²	2.760/70.10	2.760/70.10	2.760/70.10	2.760/70.10
Depth (in/mm, max) ²	3.955/100.45	3.955/100.45	3.955/100.45	3.955/100.45
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.

² 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).



www.seagate.com

AMERICAS
ASIA/PACIFIC
EUROPE, MIDDLE EAST AND AFRICA

Seagate Technology LLC 10200 South De Anza Boulevard, Cupertino, California 95014, United States, 408-658-1000
Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888
Seagate Technology SAS 16-18, rue du Dôme, 92100 Boulogne-Billancourt, France, 33 1-4186 10 00

© 2013 Seagate Technology LLC. All rights reserved. Printed in USA. Seagate, Seagate Technology and the Wave logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. PowerChoice, RAID Rebuild, Savvio and the Unified Storage architecture logo are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors. Seagate reserves the right to change, without notice, product offerings or specifications. DS1768.1CR-1301US, January 2013 (For use in Russia and China only)