

Savvio® 10K.6

Data Sheet

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
- Seagate Instant Secure Erase (ISE) technology makes it safe, fast, and easy to retire, repurpose and sell drives.
- High capacity and small footprint enables data centers to keep pace with data growth and optimize data center real estate.
- 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 costs by converging disparate interfaces, form factors and security standards.

Best-Fit Applications

- Mission-critical servers and external storage arrays
- Power- and space-constrained data centers
- 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 SED FIPS 140-2 Validated drives are not available in all models or countries. May require 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	900GB ¹	600GB ¹	450GB ¹	300GB ¹
SAS Model Number	ST900MM0006	ST600MM0006	ST450MM0006	ST300MM0006
SED FIPS 140-2 SAS Model Number	ST900MM0036 ^{2,3}			
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) 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) 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	3.955/100.45	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.

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

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) and SFF-8222 (FC models).



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