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 Unifed 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.

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Seagate®

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).

Unified Storage™

Seagate 5-Year Warranty

www.seagate.com