SEAGATE

Enterprise Capacity 3.5 HDD



Specifications	512n SATA			
Capacity	4TB	3TB	2TB	1TB
Base Model	ST4000NM0035	ST3000NM0005	ST2000NM0055	ST1000NM0055
PowerBalance™ Model	—	—	—	—
Seagate Secure® Model[1]	ST4000NM0045	ST3000NM0015	ST2000NM0065	ST1000NM0065
Seagate Secure SED-FIPS Model[1,2]	ST4000NM0105	ST3000NM0055	—	—
Special Features				
Protection Information (T10 DIF)	—	—	—	—
Humidity Sensor	Yes	Yes	Yes	Yes
SuperParity	Yes	Yes	Yes	Yes
Halogen Free	Yes	Yes	Yes	Yes
PowerChoice™ Technology	Yes	Yes	Yes	Yes
PowerBalance™ Technology	No	No	No	No
Cache	128MB	128MB	128MB	128MB
Advanced Write Caching (Internal NOR flash)	No	No	No	No
Reliability/Data Integrity				
Vibration, Nonoperating: 10Hz to 500Hz (Grms)	5	5	5	5
MTBF	2,000,000hr	2,000,000hr	2,000,000hr	2,000,000hr
Reliability Rating @ Full 24×7 Operation (AFR)	0.44%	0.44%	0.44%	0.44%
Nonrecoverable Read Errors per Bits Read, Max	1 sector per 10E15	1 sector per 10E15	1 sector per 10E15	1 sector per 10E15
Power-On Hours	8760	8760	8760	8760
Bytes per Sector	512	512	512	512
Warranty, Limited (years)	5	5	5	5
Performance				
Spin Speed	7200RPM	7200RPM	7200RPM	7200RPM
Interface Access Speed (Gb/s)	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5	6.0, 3.0, 1.5
Max Sustainable Transfer Rate	226MB/s	226MB/s	226MB/s	226MB/s
Average Latency (ms)	4.16	4.16	4.16	4.16
Interface Ports	Single	Single	Single	Single
Rotational Vibration @ 1500Hz (rad/s²)	12.5	12.5	12.5	12.5
Power Consumption				
Idle Average (W)	5.45W	5.45W	4.25W	4.25W
Average Operating Power	6.9W	6.9W	5.91W	5.91W
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V
Environmental/Temperature				
Temperature, Operating (°C)	5°C – 60°C	5°C – 60°C	5°C – 60°C	5°C – 60°C
Shock, Operating, 2ms	70/40Gs	70/40Gs	70/40Gs	70/40Gs
Shock, Nonoperating, 1ms/2ms (Gs)	250/150Gs	250/150Gs	250/150Gs	250/150Gs
Physical				
Height (mm/in)[3]	26.1mm/1.028in	26.1mm/1.028in	26.1mm/1.028in	26.1mm/1.028in
Width (mm/in, max)[3]	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in
Depth (mm/in, max)[3]	147.0mm/5.787in	147.0mm/5.787in	147.0mm/5.787in	147.0mm/5.787in
Weight (g/lb)	680g/1.5lb	680g/1.5lb	610g/1.34lb	610g/1.34lb
Carton Unit Quantity	20	20	20	20
Cartons per Pallet / Cartons per Layer	40 / 8	40 / 8	40 / 8	40 / 8

1 Self-Encrypting Drives (SED) and FIPS 140-2 Validated drives are not available in all models or countries. May require TCG-compliant host or controller support.
2 FIPS 140-2 Level 2 Certification in process.
3 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.