600 SSD

Data Sheet

Speed up your laptop with SSD performance and ruggedness.

- Upgrades existing laptops by replacing client 2.5-inch HDDs with fast, rugged client SSDs

- Enables laptops to boot and load applications up to 50% faster than with a traditional HDD

- Significantly reduces the amount of time end-users must wait before using their devices

- Allows end-users to access data faster and to take advantage of superior laptop responsiveness

- The ultimate upgrade drive for road warriors, power users, executives and gamers—work and play faster

- No mechanical moving parts helps ensure data stays safe even if laptop is dropped or bumped while operating

- Is installed like a typical hard drive, and works with any standard laptop and OS

- SATA 6Gb/s interface

- Provides up to 480GB capacity

- First client SSD available in both 7mm and 5mm z-heights for space-constrained laptops

- Over 30 years of compatibility and reliability HDD testing expertise optimised for SSDs

Best-Fit Applications

- Performance upgrade for existing laptops with 2.5-inch hard drives

- Improved ruggedness upgrade for existing laptops in case of dropping while operating

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Seagate ®

Comprehensive Storage Device Portfolio

The Seagate® 600 SSD broadens the Seagate portfolio by providing channel partners a one-stop shop for all their SSD, SSHD and HDD storage needs.

With supply chain expertise, deep ecosystem relationships and manufacturing excellence, all combined with global inventory hubs and volume ramp flexibility, Seagate enables product availability to accommodate the most dynamic forecast requirements.

Specifications	2.5-Inch, 7mm z-Height			2.5-Inch, 5mm z-Height		
	480GB[1]	240GB[1]	120GB[1]	480GB[1]	240GB[1]	120 GB[1]
Model Number	ST480HM000	ST240HM000	ST120HM000	ST480HM001	ST240HM001	ST120HM001
Interface Options	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
NAND Flash Type	MLC	MLC	MLC	MLC	MLC	MLC
Performance						
Sequential Read/Write Command Rate (MB/s), 128KB	>500/>400	>500/>400	>500/>300	>500/>400	>500/>400	>500/>300
Random Read/Write Command Rate (IOPS) Peak, 4KB	Up to 80K/70K	Up to 80K/70K	Up to 80K/60K	Up to 80K/70K	Up to 80K/70K	Up to 80K/60K
Configuration/Reliability						
Nonrecoverable Read Errors per Bits Read, Max	1 per 10^{16}	1 per 10^{16}	1 per 10^{16}	1 per 10^{16}	1 per 10^{16}	1 per 10^{16}
Annualized Failure Rate (AFR)	0.58%	0.58%	0.58%	0.58%	0.58%	0.58%
Limited Usage-Based Warranty (years)[3]	3	3	3	3	3	3
Maximum Data Written to Device per Day (GB)	40	40	20	40	40	20
Max Amount of Data Written to Device During Warranty Period (TB)[3]	72	72	36.5	72	72	36.5
Power Management						
+5V Max Start Current (mA)	950	950	950	950	950	950
Average Sleep Power (W)	0.6	0.6	0.6	0.6	0.6	0.6
Average Operating Power (W)	0.6	0.6	0.6	0.6	0.6	0.6
Average Idle Power (W)	1.1	1.1	1.1	1.1	1.1	1.1
Average Operating Power (W)	0.75	0.75	0.75	0.75	0.75	0.75
Environmental						
Internal Operating Temperature (°C)	0 to 70	0 to 70	0 to 70	0 to 70	0 to 70	0 to 70
Non-operating Temperature (°C)	−55 to 95	−55 to 95	−55 to 95	−55 to 95	−55 to 95	−55 to 95
Temperature Change Rate/Hr, Max (°C)	20	20	20	20	20	20
Relative Humidity, Noncondensing (%)	5 to 95	5 to 95	5 to 95	5 to 95	5 to 95	5 to 95
Shock, 0.5ms (Gs)	1,500	1,500	1,500	1,500	1,500	1,500
Vibration, 20Hz to 2000Hz (Grms)	11.08	11.08	11.08	11.08	11.08	11.08
Physical						
Height (mm/in)[2]	7.0/0.276	7.0/0.276	7.0/0.276	5.0/0.197	5.0/0.197	5.0/0.197
Width (mm/in)[2]	69.85/2.75	69.85/2.75	69.85/2.75	69.85/2.75	69.85/2.75	69.85/2.75
Depth (mm/in)[2]	100.46/3.955	100.45/3.955	100.45/3.955	100.45/3.955	100.45/3.955	100.45/3.955
Weight (g/lb)	77/0.17	77/0.17	77/0.17	67/0.15	67/0.15	67/0.15
Carton Unit Quantity	20	20	20	20	20	20
Cartons per Pallet	45	45	45	45	45	45
Cartons per Layer	9	9	9	9	9	9

[1] One gigabyte, or GB, equals one billion bytes when referring to hard 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.

[3] Limited usage-based warranty period is either 3 years or when the device reaches the maximum TB total written during the warranty period, whichever comes first.