

# 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
- Delivers nearly 4× faster boot times and more than 2× faster application load times when compared to typical laptop HDDs
- 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
- Installs like a typical HDD and works with any standard laptop and OS
- Supports 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 optimized for SSDs

### Best-Fit Applications

- Performance upgrade for existing laptops with 2.5-inch hard drives
- Improved ruggedness upgrade for existing laptops that may be dropped while operating



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## 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 <sup>1</sup>	240GB <sup>1</sup>	120GB <sup>1</sup>	480GB <sup>1</sup>	240GB <sup>1</sup>	120GB <sup>1</sup>
Model Number	ST480HM000	ST240HM000	ST120HM000	ST480HM001	ST240HM001	ST120HM001
Interface Options	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
NAND Flash Type	MLC	MLC	MLC	MLC	MLC	MLC
<b>Performance</b>						
Sustained 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
<b>Configuration/Reliability</b>						
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E16	1 per 10E16	1 per 10E16	1 per 10E16	1 per 10E16	1 per 10E16
Annualized Failure Rate (AFR)	0.58%	0.58%	0.58%	0.58%	0.58%	0.58%
Limited Warranty With Media Usage (years) <sup>3</sup>	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) <sup>3</sup>	73	73	36.5	73	73	36.5
<b>Power Management</b>						
+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 Standby 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
<b>Environmental</b>						
Internal Operating Temperature (°C)	0 to 70	0 to 70	0 to 70	0 to 70	0 to 70	0 to 70
Nonoperating Temperature (°C)	-40 to 75	-40 to 75	-40 to 75	-40 to 75	-40 to 75	-40 to 75
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)	1500	1500	1500	1500	1500	1500
Vibration, 20Hz to 2000Hz (Grms)	11.08	11.08	11.08	11.08	11.08	11.08
<b>Physical</b>						
Height (mm/in) <sup>2</sup>	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) <sup>2</sup>	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) <sup>2</sup>	100.45/3.955	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

<sup>1</sup> One gigabyte, or GB, equals one billion bytes when referring to drive capacity.

<sup>2</sup> The drive physical dimensions conform to the Small Form Factor Standard (SFF-8201) found at [www.sffcommittee.org](http://www.sffcommittee.org). For connector-related dimensions, see SFF-8223.

<sup>3</sup> Limited Warranty With Media Usage period is either 3 years or when the device reaches the maximum TB total written during the warranty period, whichever comes first.

[www.seagate.com](http://www.seagate.com)

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