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OCZ

TL100 Series

SATA 6 Gbit/s

A Value-oriented SSD Series for Entry-level HDD Upgrades

Sept 2016



Overview

Using TLC NAND flash memory technology, the Toshiba OCZ TL100 SATA SSD series is designed to make your hard disk drive upgrade affordable. Imagine faster boot-ups, file transfers, game level loading, and data access compared to your lag-prone mechanical hard disk drive. Suitable for either a speedy boot drive or notebook storage replacement, the TL100 series marries value and performance to bring the benefits of SSDs to more PC users than ever before.

Instant Performance Upgrade

It's time to leave your hard drive behind and enhance your computing experience once and for all. Toshiba OCZ TL100 SSDs provide an immediate and noticeable increase in system speed and responsiveness.

Focused on Affordability

Offering an easy and affordable way for value-oriented users to boost storage performance, Toshiba OCZ TL100 SSDs enable increased home/office productivity over traditional hard disk drives.

Elevate Your Mobility

Compared to hard drives, Toshiba OCZ TL100 SSDs also offer improved durability and power consumption, which can translate into longer battery life to keep you up and running longer.

Quality from the Inside Out

“Value” doesn't have to mean you need to sacrifice quality. With Toshiba expertise built into each TL100 drive, you can expect quality hardware, firmware, and a 3-year Advanced Warranty Program¹ you can trust.

¹Available to limited regions and countries. Please visit <https://www.ocz.com/us/support/advanced-warranty> for details.



Specifications

Performance

	120GB	240GB
Sequential Read Speed²	Up to 550 MB/s	Up to 550 MB/s
Sequential Write Speed²	Up to 530 MB/s	Up to 530 MB/s
Random Read³ (4 KiB, QD32)	Up to 85,000 IOPS	Up to 85,000 IOPS
Random Write³ (4 KiB, QD32)	Up to 80,000 IOPS	Up to 80,000 IOPS

Endurance

TBW (Total Bytes Written)⁴	30 TB	60 TB
Daily Usage Guidelines⁵	27 GB/day	54 GB/day

²Maximum Sequential speeds are measured with ATTO v3.05

³4 KiB random performance is measured with Crystal Disk Mark v. 5.1.2, 1000MB test file size, QD32

⁴Definition and conditions of TBW (Terabytes Written) are based on JEDEC standard; JESD218A, February 2011, and defined for the service life.

⁵Daily usage guidelines value is calculated by dividing TBW by 365 x 3.

Physical

Capacities	120GB, 240GB
NAND Flash Memory Type	TLC
Interface	Serial ATA (SATA) 6 Gbit/s
Form Factor	2.5-inch, 7 mm height
Dimensions	100 mm x 69.85 mm x 7.00 mm
Drive Weight	120GB, 37.5 g (typ.) 240GB: 37.5 g (typ.)

Environmental

Operating Temperature (Tc)	0 °C to 70 °C
Storage Temperature	-40 °C to 85 °C
Shock Resistance	14.7 km/s ² {1500 G} (0.5 ms)
Vibration	196 m/s ² {20 Grms} (Peak, 10 to 2,000 Hz)
Certifications	CE, BSMI, RCM, KCM, UL, RoHS + RoHS2



Power Requirements

Supply Voltage	5V ±5 %	
Power Consumption	Active	Up to 1.6 W (typ.)
	Idle	440 mW (typ.)
	DevSleep	10 mW max

Reliability / Security

MTTF	1.5 Mhours
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (SMART) Support

Compatibility

Serial ATA	ATA/ATAPI Command Set-3 (ACS-3) and Serial ATA revision 3.2 interface specifications supported
Operating System⁶	Windows® 10 x64, Windows® 8.1 x64, Windows® 7 x64; Linux® Fedora x64 22, 23, Mint x64 17, 17.1, 17.2, 17.3, Ubuntu Desktop 14.04 LTS, 15.10, Ubuntu Server 16.04 LTS; Mac® OS X® 10.9, 10.10, 10.11.4
Connector Type	Standard SATA Power Connector
Targeted Applications	Client desktops and laptops new build and upgrade solutions; HDD Replacement

⁶Compatible operating system for SSD is not the same as compatible operating system for SSD Utility or CLOUT.

Additional

Performance Optimization	TRIM
Service & Support	3-Year Advanced Warranty Program ⁷ , Toll-free and online Tech Support
Software	SSD management software: SSD Utility

⁷Available to limited regions and countries. For more information, go to <https://ocz.com/us/support/advanced-warranty>.



Advanced Warranty Program

A new approach to service that mitigates the hassle surrounding support and warranty claims consumers often have to deal with. This program provides advanced replacement with no return shipping costs. Advanced Warranty Program is limited by selected regions. Detailed warranty terms available at www.ocz.com



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Ordering Information	Model	Part Number	UPC
TL100	120GB	TL100-25SAT3-120G	842024037958
	240GB	TL100-25SAT3-240G	842024037965

Definition of capacity: Toshiba defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2³⁰ = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

A kibibyte (KiB) means 2¹⁰, or 1,024 bytes, a mebibyte (MiB) means 2²⁰, or 1,048,576 bytes, and a gibibyte (GiB) means 2³⁰, or 1,073,741,824 bytes.

IOPS: Input Output Per Second (or the number of I/O operations per second)

MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF.

Read and write speed may vary depending on the host device, read and write conditions, and file size.

Subject to Change: While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice.

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Product image may represent design model.

OCZ TL100 comes with a 3-Year Advanced Warranty Program. Advanced Warranty Program is limited by selected regions. Detailed warranty terms available at www.ocz.com

