TOSHIBA

Leading Innovation

OCZ

TR150 Series

SATA 6 Gbit/s

The SSD for mainstream value consumers

Sep 2016

Overview

Upgrading from a hard disk drive (HDD) should be easy and affordable and that's where OCZ TR150 SSDs come in. Designed to boost the speed of your notebook or PC over conventional HDD, the TR150 Series leverages TLC NAND flash memory to deliver well-balanced performance, reliability, and value that will transform your mobile or desktop system.

Fast and Efficient

Up your productivity with the TR150 Series and enjoy faster boot ups, file transfers, and system responsiveness. Say goodbye to hard disk drive lag and get a computing experience worthy of your time.

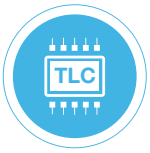
Performance Made Affordable

Upgrading to an SSD from conventional HDD can feel like you've purchased an entirely new system. TR150 SSDs balance price and performance so you have enough funds leftover for other upgrades.

Better Battery Life

The more power-efficient TR150 Series provides lower consumption compared to HDD which can translate into longer battery life to keep you up and running longer.

Features



TLC Technology

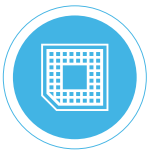
Built with TLC NAND flash memory.

Longer Battery Life

Lower power consumption compared to HDD for longer battery life with built-in power management modes.

Quality & Reliability

Toshiba technology built into every drive.



Toshiba Controller

Leverages a Toshiba SSD controller.

Performance Made Affordable

Well-balanced price to performance ratio.

Slim Form Factor

Sleek housing offers slimmer 7mm height for compatibility with the thin notebooks.

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

ADVANCED WARRANTY
PROGRAM

SSD Utility SSD Management Software

The SSD Utility was designed to help your OCZ drive thrive and lets you be in control of maintenance, monitoring, SSD tuning, OS tuning and more!

Specifications

Performance	120 GB	240 GB	480 GB	960 GB
Sequential Read Speed[1]	Up to 550 MB/s	Up to 550 MB/s	Up to 550 MB/s	Up to 550 MB/s
Sequential Write Speed[1]	Up to 450 MB/s	Up to 520 MB/s	Up to 520 MB/s	Up to 530 MB/s
Random Read[2] (4 KiB, QD32)	Up to 81,000 IOPS	Up to 86,000 IOPS	Up to 86,000 IOPS	Up to 87,000 IOPS
Random Write[2] (4 KiB, QD32)	Up to 40,000 IOPS	Up to 73,000 IOPS	Up to 83,000 IOPS	Up to 83,000 IOPS

Endurance

TBW (Total Bytes Written)[3]	30 TB	60 TB	120 TB	240 TB
Daily Usage Guidelines[4]	27 GB/day	55 GB/day	110 GB/day	219 GB/day

[1] Sequential speeds are measured with Iometer.
[2] 4 KiB random performance is measured with CrystalDiscMark 4.1.0. QD32.
[3] Definition and conditions of TBW (Terabytes Written) are based on JEDEC standard; JESD218A, February 2011, and defined for the service life.
[4] Daily usage guidelines value is calculated by dividing TBW by 365 x 3.

Physical

Capacities	120GB, 240GB, 480GB, 960GB
NAND Flash Memory Type	TLC
Interface	Serial ATA (SATA) 6 Gbit/s
Form Factor	2.5-inch, 7 mm height
Dimensions	100.00 x 69.85 x 7.00 mm
Drive Weight	120 GB: 57 g (typ.) 240 GB, 480 GB, 960 GB: 61 g (typ.)

Power Requirements

Supply Voltage	5V ±5 %	
Power Consumption	Active Idle	3.6 W (typ.) 100 mW (typ.)
DevSleep Power	10 mW max	

Environmental

Operating Temperature	0 °C to 65 °C
Storage Temperature	-40 °C to 85 °C
Shock Resistance	14.7 km/s^2 {1500 G} (0.5 ms)
Vibration (Operational & Non-operational)	196 m/s^2 {20 Grms} (Peak, 10 to 2,000 Hz)
Certifications	UL/cUL, FCC, CE, RCM, KC, BSMI, VCCI, and ISED

Reliability / Security

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

Compatibility

Serial ATA	ATA/ATAPI Command Set-2 (ACS-2) and Serial ATA revision 3.1 interface specifications supported
Operating System[5]	Windows® 10, Windows® 8.1, Windows® 7; Linux® Fedora 21, Mint 17.1, ElementaryOS Freya, OpenSUSE 13.2, Ubuntu 14.04, Ubuntu 14.10; Mac® OS X® 10.9, 10.10, 10.11
Connector Type	Standard SATA connector
Targeted Applications	Client desktops and laptops

[5] Compatible operating system for SSD is not the same as compatible operating system for SSD Utility or CLOUT

Additional

Performance Optimization	TRIM, Idle Time Garbage Collection
Service & Support	3-Year Advanced Warranty Program[6], Toll-free and onlineTech Support
Software	SSD management software: SSD Utility and Command Line Online Update Tool (CLOUT)

[6] Available to limited regions and countries.

Ordering Information	Model	Part Number	UPC
TR150	120GB	TRN150-25SAT3-120G	842024037682
	240GB	TRN150-25SAT3-240G	842024037699
	480GB	TRN150-25SAT3-480G	842024037705
	960GB	TRN150-25SAT3-960G	842024037712

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 = 2^{30} = 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 2^{10}, or 1,024 bytes, a mebibyte (MiB) means 2^{20}, or 1,048,576 bytes, and a gibibyte (GiB) means 2^{30}, 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 TR150 comes with a 3-Year Advanced Warranty Program. Advanced Warranty Program is limited by selected regions. Detailed warranty terms available at www.ocz.com