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VT180 Series

SATA 6 Gbit/s

The SSD for enthusiast-caliber gamers

Sep 2016

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SOLID STATE DRIVE

TOSHIBA   *OCZ VT180*

Overview

SSD Technology Amplified

Designed for enthusiasts by enthusiasts, the OCZ VT180 SATA SSD series, a high-end class in OCZ SATA line-up, delivers powerful punches of performance and reliability helping your high-speed computing or gaming environment excel.

Built exclusively for users who expect high quality computer components, the OCZ VT180 series pushes the boundaries of flash storage technology, offering optimized real-world performance that will blow you away.

Performance That Won't Hold You Back

Have an insatiable need for speed? Well, welcome to faster boot ups, file transfers, and system responsiveness compared to an HDD. You'll wave goodbye to HDD lags and say hello to a computing experience worthy of your time.

Quality from the Inside Out

We understand what you need, and that's ensuring reliability is something you don't have to worry about. The OCZ VT180 was engineered with high quality in mind. With Toshiba expertise built into every drive, you can expect NAND flash memory technology, solid alloy housing, and a 5-year Advanced Warranty Program* you can trust.

*Available to limited regions and countries.

VT180 SSD Series Product Brief | V 1.1 | Sep 2016

Features

Proprietary

Proprietary OCZ controller technology combined with Toshiba NAND flash memory.

Lasting Performance

Advanced firmware suite of NAND flash memory management keeps your drive at high sustained performance over the long term.

Free Data Migration

Bundled with Acronis® True Image™ cloning software to easily transfer data from your old Hard Disk Drive or SSD.

Slim Form Factor

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

Included Desktop Adapter

Not using a notebook? No problem. VT180 comes with a 3.5-inch adaptor that easily fits into standard desktop drive bays.

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!

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Specifications

Performance	120GB	240GB	480GB	960GB
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 440 MB/s	Up to 530 MB/s	Up to 530 MB/s	Up to 530 MB/s
Random Read[2] (4 KiB, QD32)	Up to 85,000 IOPS	Up to 95,000 IOPS	Up to 100,000 IOPS	Up to 100,000 IOPS
Random Write[2] (4 KiB, QD32)	Up to 90,000 IOPS	Up to 90,000 IOPS	Up to 95,000 IOPS	Up to 95,000 IOPS

[1] Sequential speeds are measured with ATTO v2.47.
[2] 4 KiB random performance is measured with Crystal Disk Mark v3.0.3, 1000 MB test file size, QD32.

Physical

Capacities	120GB, 240GB, 480GB, 960GB
NAND Flash Memory Type	MLC
Interface	Serial ATA (SATA) 6 Gbit/s
Form Factor	2.5-inch, 7 mm height
Dimensions	100.45 mm (max) x 69.75 (±0.25) mm x 7.00 (+0.20 / –0.50) mm
Drive Weight	120GB: 113 g (typ.) 240GB, 480GB, 960GB: 118 g (typ.)

Power Requirements

Supply Voltage	5V ±5 %	
Power Consumption	Active	3.7 W (typ.)
	Idle	0.89 W (typ.)

Environmental

Operating Temperature	0 °C to 70 °C
Storage Temperature	-45 °C to 85 °C
Shock Resistance	9.8 km/s^2 {1000 G} (0.5 ms)
Vibration (Operational)	21 m/s^2 {2.17 Grms} (Peak, 7 to 800 Hz)
Vibration (Non-operational)	30 m/s^2 {3.13 Grms} (Peak, 5 to 800 Hz)
Altitude (Operational)	-304.8 to 3,048 m {-1,000 to 10,000 ft}
Altitude (Non-operational)	-304.8 to 12,192 m {-1,000 to 10,000 ft}
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	Compatible with Serial ATA International Organization: Serial ATA Revision 3.1. Compatible with Information technology - ATA/ATAPI Command Set (ACS)
Operating System[3]	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 Power Connector
Targeted Applications	Client workstations and laptops

[3] 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	5-Year Advanced Warranty Program[4], Toll-free and online Tech Support
Software	SSD management software: SSD Utility and Command Line Online Update Tool (CLOUT) Cloning software: Acronis® True Image™ HD
Accessories	A 3.5-inch SSD desktop adapter bracket

[4] Available to limited regions and countries.

Ordering Information

	Model	Part Number	UPC
	120GB	VTR180-25SAT3-120G	842024037200
VT180	240GB	VTR180-25SAT3-240G	842024036548
	480GB	VTR180-25SAT3-480G	842024036555
	960GB	VTR180-25SAT3-960G	842024036562

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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OCZ VT180 comes with a 5-Year Advanced Warranty Program. Advanced Warranty Program is limited by selected regions. Detailed warranty terms available at www.ocz.com