

How Confident Are You About the SSD Quality in the Market Today? SSDA Announced our Latest SSD Test Report at COMPUTEX TAIPEI 2010

The outstanding performance and endurance of SSD (Solid State Drive) have made itself a spotlight in recent years when it comes to choosing storage devices. However, the situation is that while more and more SSD products featuring diverse functions are coming to the market, how to choose a suitable SSD thus becomes a difficult problem for consumers. To help with this common dilemma, at the time of COMPUTEX 2010, SSDA (Solid State Drive Alliance) announced the latest SSD Test Report which includes the test result of 7 famous brand SSDs. SSDA hopes that the test criteria of this test report can be a helpful reference for consumers to examine the real performances of SSDs in a more comprehensive perspective.

In the past, people intended to evaluate a SSD by its TBW (Terabytes Written). But the truth is, TBW is neither the only criterion to select SSDs nor a common term for consumer to understand. SSDA therefore use the “SSDA Compliance Test Program V1.4” to break the barrier. Selecting 7 famous brand SSDs in the market as the test samples, this test program cross-test these samples to examine their performances in both theoretical and practical aspects. Base on the test result, it’s surprised that these famous brand SSDs all have huge differences in their performance and stability, and one of the test sample even failed with unknown reason during the Performance Test.

The full SSD Compliance Test Program V1.4 is divided into four categories including Hardware Test, Reliability Test, Compatibility Test and Performance Test.

Hardware Test is focused on testing the interface signal of SSDs. Only 2 out of the 7 testing samples can pass all test items.

Test	Location Connector	Signal and Power Connector
SSD Testing Sample A	Fail	Fail
SSD Testing Sample B	Pass	Fail
SSD Testing Sample C	Pass	Pass
SSD Testing Sample D	Fail	Pass
SSD Testing Sample E	Pass	Fail
SSD Testing Sample F	Pass	Pass
SSD Testing Sample G	Fail	Pass

In Reliability Test, examining each SSD's possibility of data loss is the core criterion. 4 out of the 7 testing samples can pass all test items.

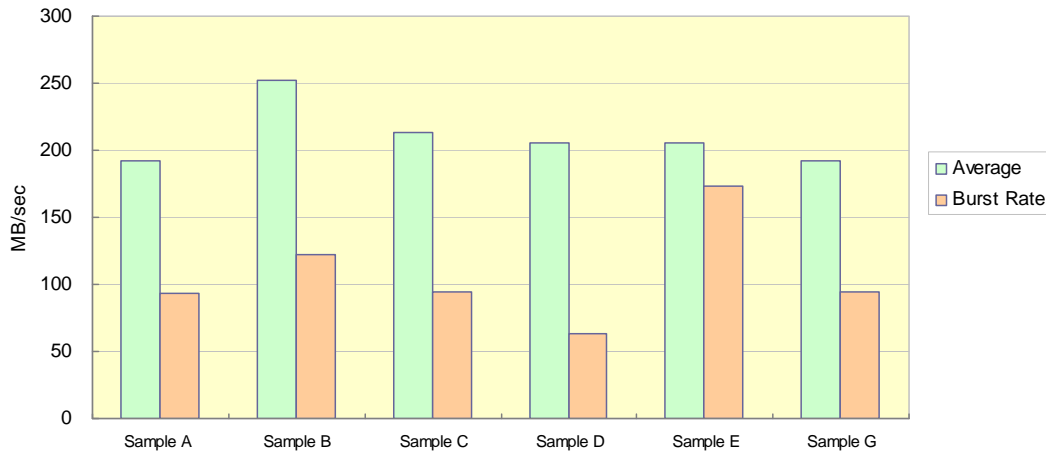
Test	Stress Test	Power Cycle Test	Unexpected Power Failure Test	Hot-Plug Test
SSD Testing Sample A	Pass	Fail	Pass	Pass
SSD Testing Sample B	Pass	Pass	Pass	Pass
SSD Testing Sample C	Pass	Pass	Pass	Pass
SSD Testing Sample D	Pass	Pass	Pass	Pass
SSD Testing Sample E	Fail	Pass	Pass	Pass
SSD Testing Sample F	Fail	Fail	Fail	Pass
SSD Testing Sample G	Pass	Pass	Pass	Pass

Compatibility Test is to make sure if the SSDs can work with different OS, Chipset and BIOS. 4 out of the 7 testing samples can pass all test items.

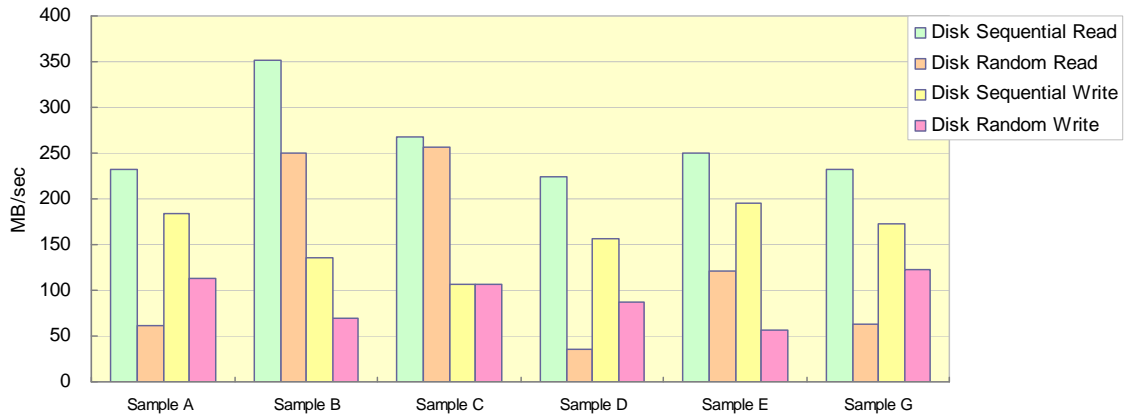
Test	POST Screen Detection	BIOS Utility Detection	OS Installation	Device Enumeration	Basic Function	Power Management
SSD Testing Sample A	Pass	Pass	Pass	Pass	Pass	Fail
SSD Testing Sample B	Pass	Pass	Pass	Pass	Pass	Fail
SSD Testing Sample C	Pass	Pass	Pass	Pass	Pass	Pass
SSD Testing Sample D	Pass	Pass	Pass	Pass	Pass	Pass
SSD Testing Sample E	Pass	Pass	Pass	Pass	Pass	Fail
SSD Testing Sample F	Pass	Pass	Fail	Pass	Pass	Pass
SSD Testing Sample G	Pass	Pass	Pass	Pass	Pass	Pass

As to Performance Test, storage benchmarking software is used to cross-test these SSDs. Although all current storage benchmarking software available in the market isn't specifically designed for SSDs, it's still a very effective and persuasive reference to test the performance of SSDs such as the Read/Write Speed.

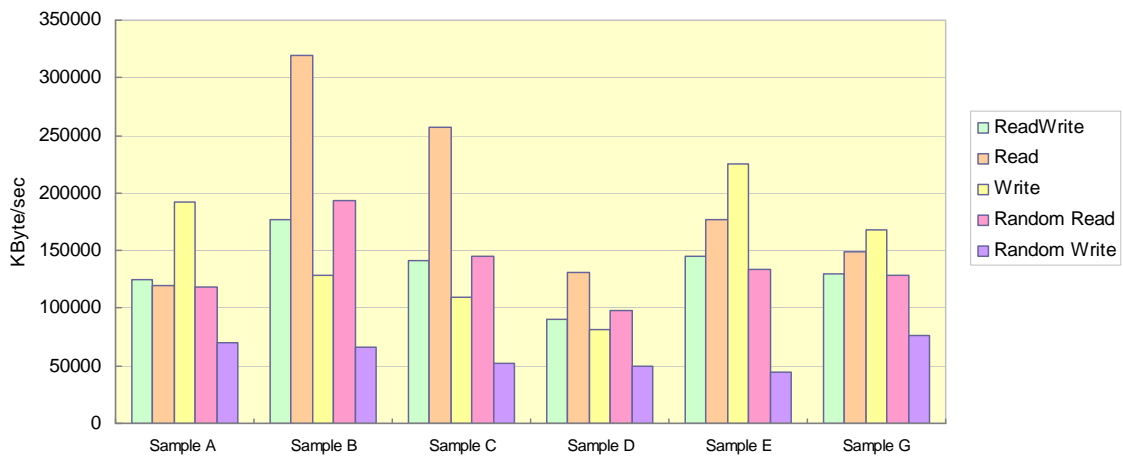
HD Tune Benchmark(Higher is better)

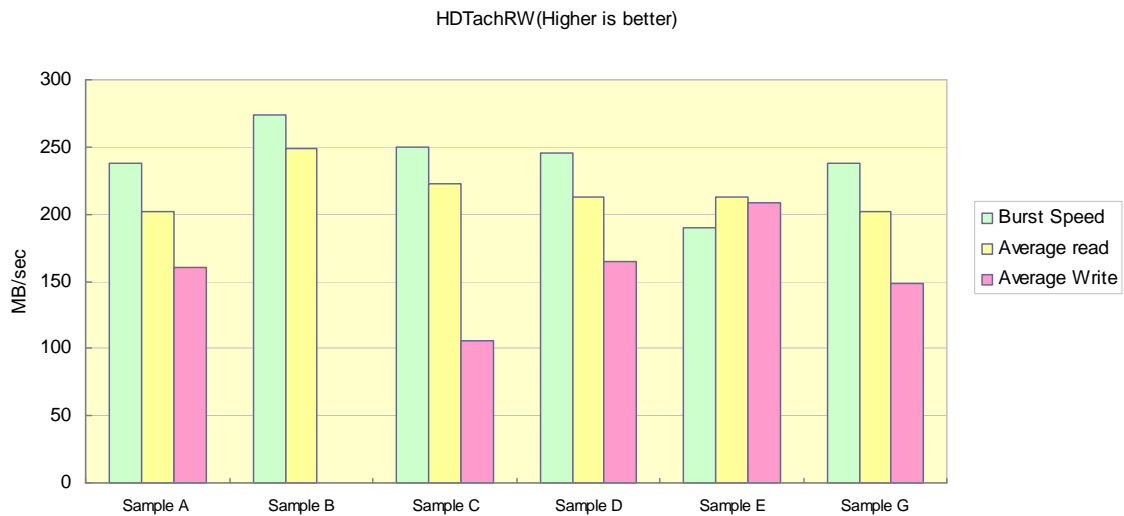


WinSAT(Higher is better)



FDBENCH(Higher is better)





(The above test result is for reference only)

Since the launch of “SSDA Compliance Test Program V1.4” last year, SSDA has continued to receive enthusiastic response from worldwide SSD manufacturers. While the SSD Endurance Test Standard is about to be announced by JEDEC organization in the upcoming days, the development of SSD market is more flourishing than ever, and “How to choose a suitable SSD” has become an issue under discussion, SSDA will be announcing the brand-new “SSDA Compliance Test Program V1.5” with the newly-added “Endurance Test” item in the later half of 2010. If you are interested in the test program or want to gain further relative information, please visit SSDA website at <http://www.ssdalliance.org>.