



MINERVA

S2073F Converter Card

Performance & Burn In Test Rev. 1. 0

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4. Summary

S2073F Converter Card

1. Overview

S2073F adapter, providing Mini PCIe & CFast connector can be mSATA SSD or CFast Card converted into SATA.

2. Tools and Results of Performance Measurement

2.1 Test Platform

M/B : ASUS **X99-PRO/USB3.1**
CPU : Intel **i7-5820K**, 3.3GHz/ 15M Cache/ LGA2013-v3
Memory : ADATA DDR4 PC4-1700MHz, 8G(4GB DIMM*2)
ATX Power : COOLER MASTER G750M, **750W ATX**, 12V V2.31 Power Supply
Graphic : ATI Radeon **HD Graphics 5450** Graphics Processor
OS : Microsoft **Windows 8.1 64bit OS**

2.2 Test target: S2073F adapter with mSATA 128GB or CFast 128GB



S2073F Adapter



Crucial 128G mSATA



Transcend 128G CFast Card

2.3 Install Hardware

Insert mSATA SSD or CFast Card into S2073F converter's Mini PCIe or CFast connector, and then with coppers, and screws to fix SSDs. (Please refer to the Installation Notes). Then connect S2073F converter to SATA port of ASUS **X99-PRO/USB3.1**

2.4 BIOS & Windows 8.1 OS environment setup

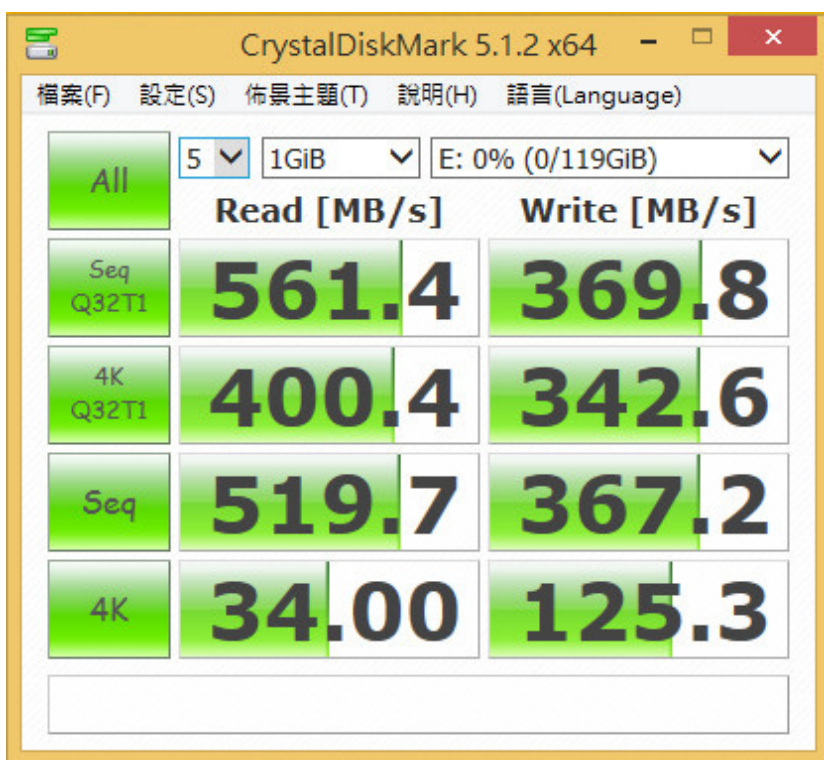
- 2.4.1 Install Windows 8.1 64bit OS
- 2.4.2 Format mSATA into Drive E
- 2.4.3 Format CFast into Drive D

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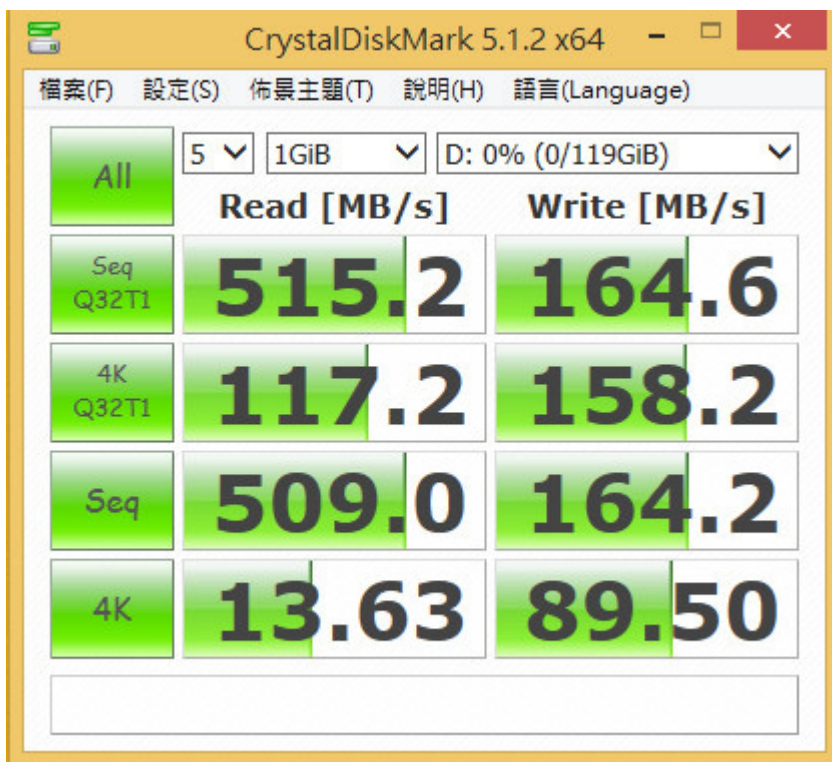
2.5 CrystalDiskMark 5.1.2 x64 performance test

※Benchmark (Sequential [Read & Write](#) / default = **1MB**)

2.5.1 show [Crucial 128GB\(CT-128M550SSD3\)](#) performance as below:



2.5.2 show [Trancend 128GB\(TS128GCFX600\)](#) performance as below:

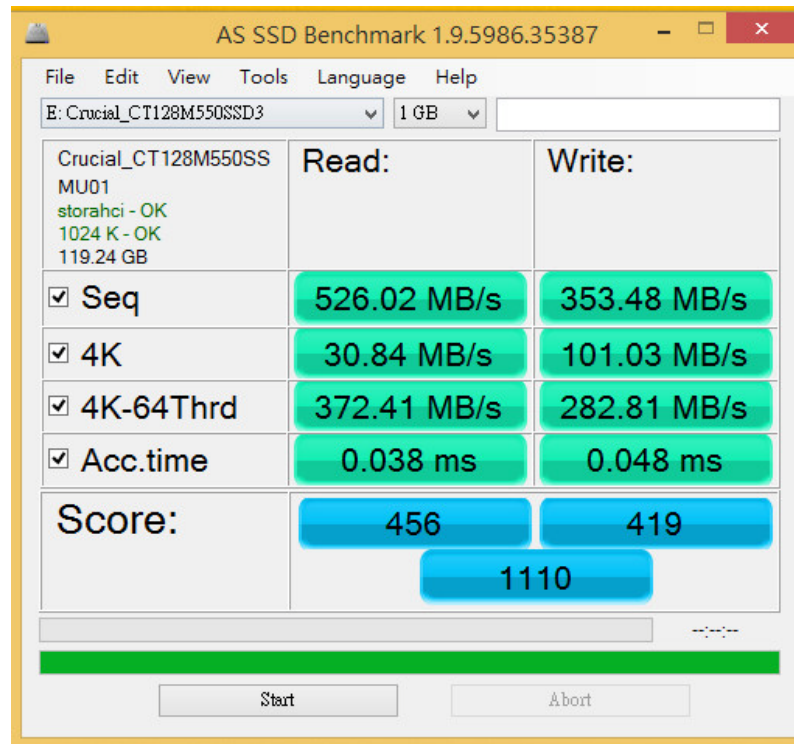


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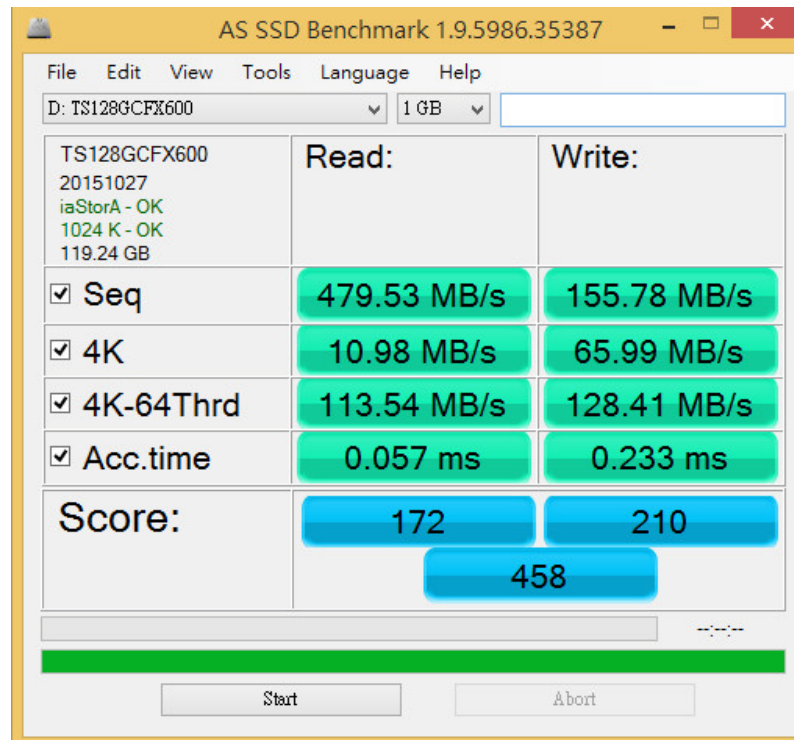
2.6 AS SSD Benchmark 1.9 performance test

※Benchmark (Read & Write by MB/s, default block size = 16MB)

2.6.1 show Crucial 128GB(CT-128M550SSD3) performance as below:



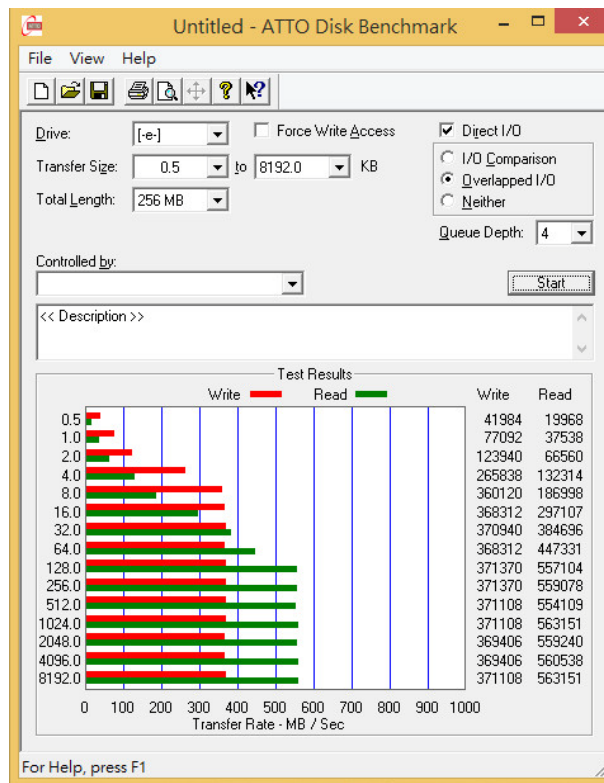
2.6.2 show Trancend 128GB(TS128GCFX600) performance as below:



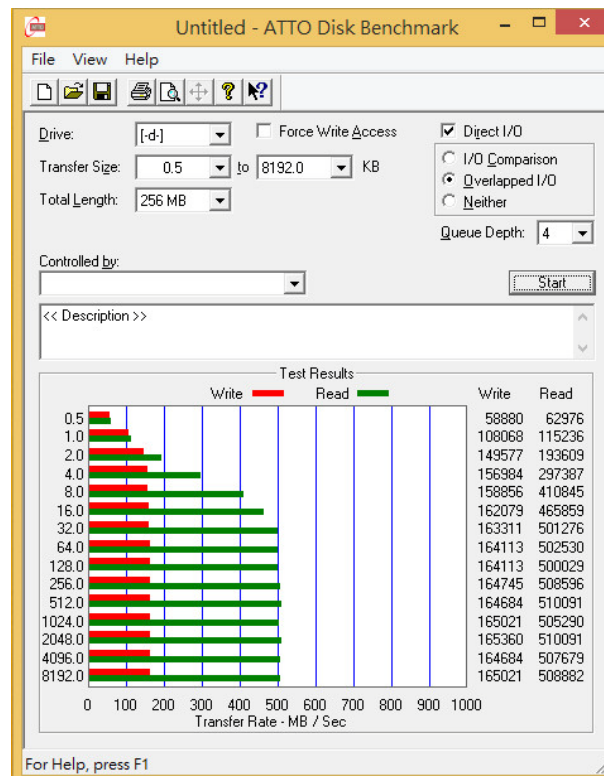
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2.7 ATTO Disk Benchamrk 2.47 performance test

2.7.1 show Crucial 128GB([CT-128M550SSD3](#)) performance as below:



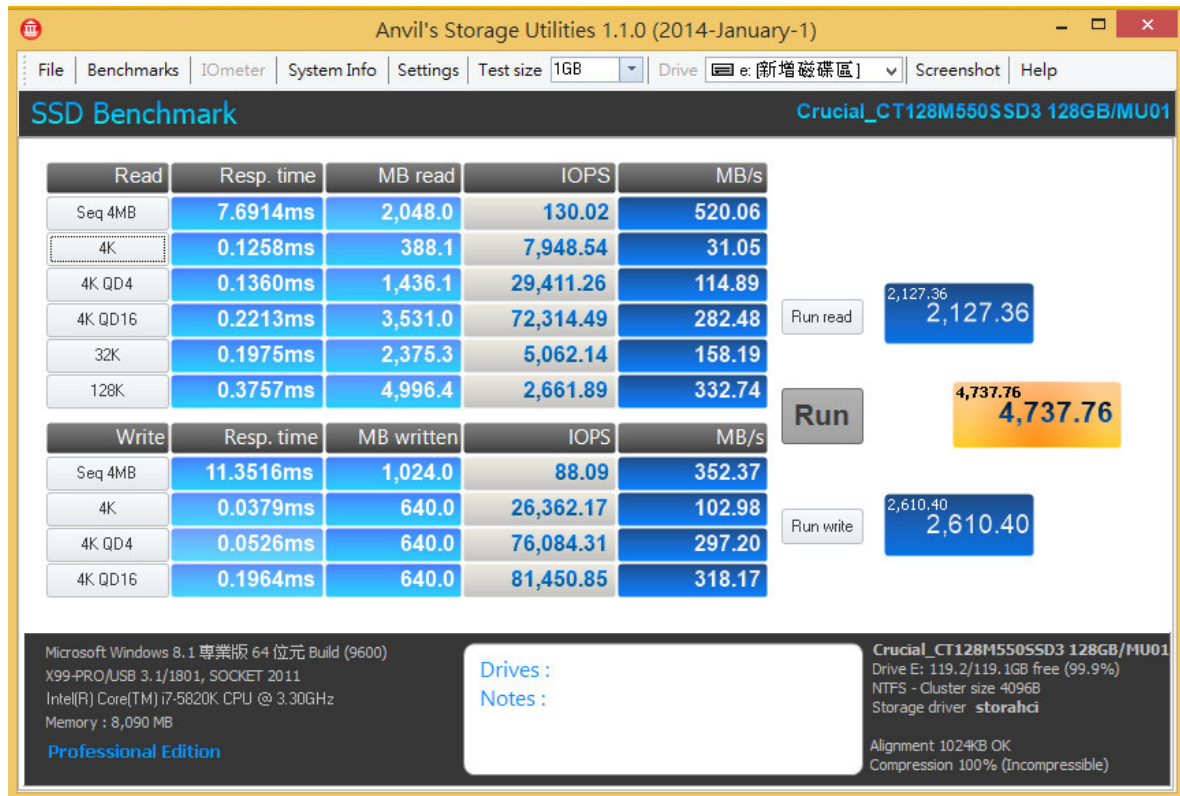
2.7.2 show Trancend 128GB([TS128GCFX600](#)) performance as below:



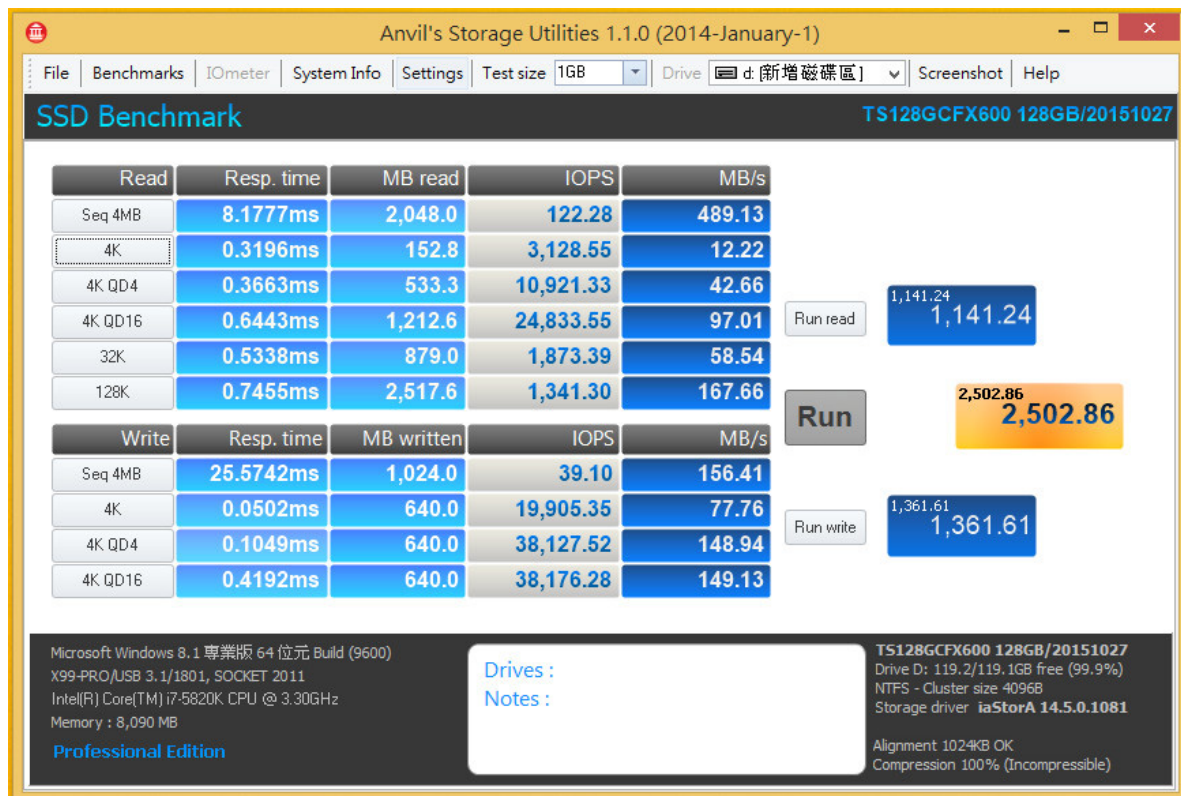
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2.8 AnvilBenchmark_V110_B337

2.8.1 show Crucial 128GB(CT-128M550SSD3) performance as below:



2.8.2 show Trancend 128GB(TS128GCFX600) performance as below:

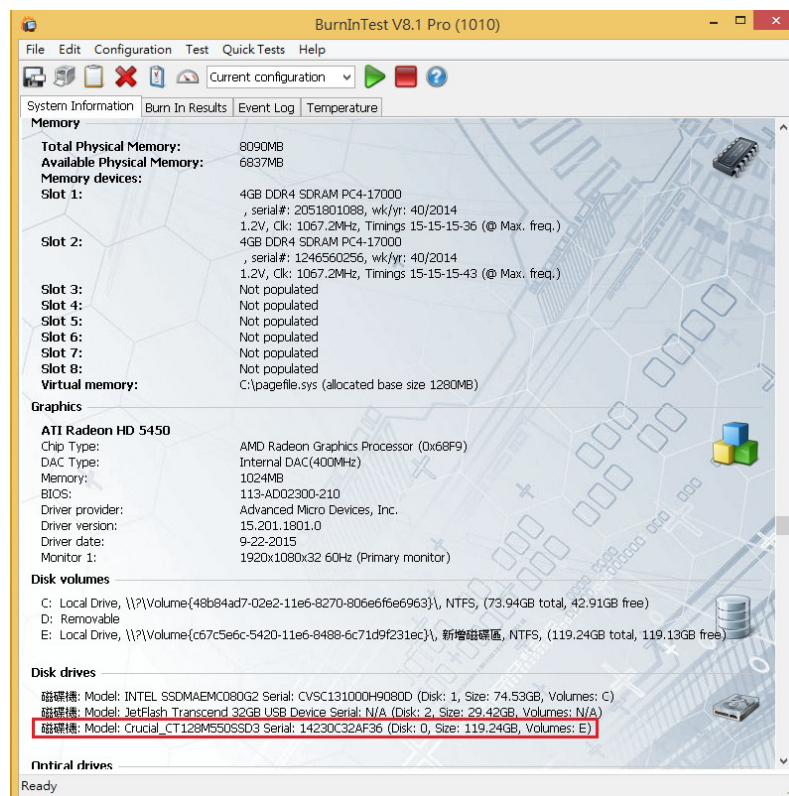
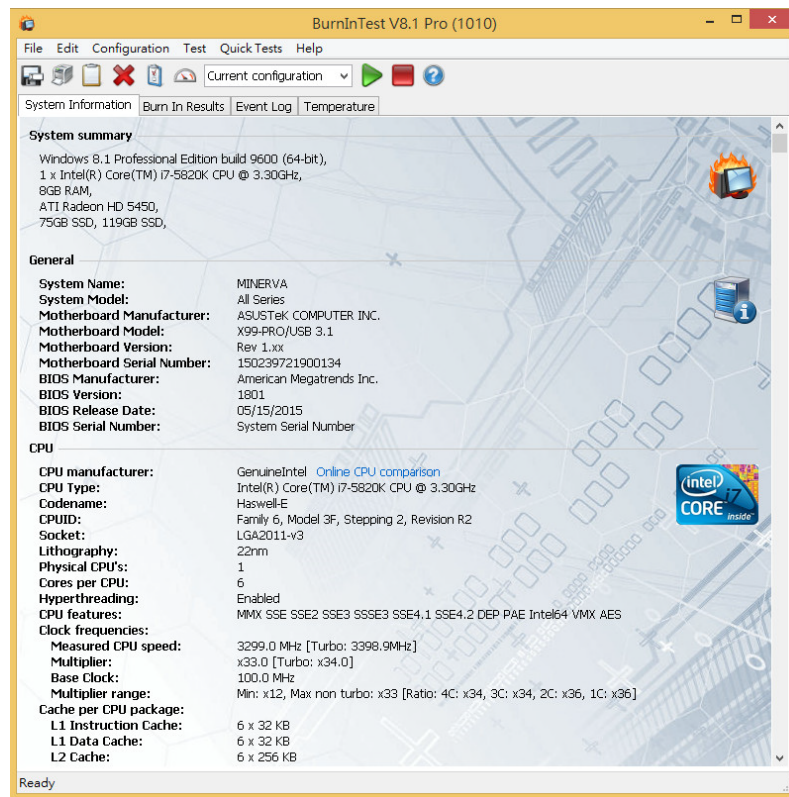


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3. Burn In Tests and Results

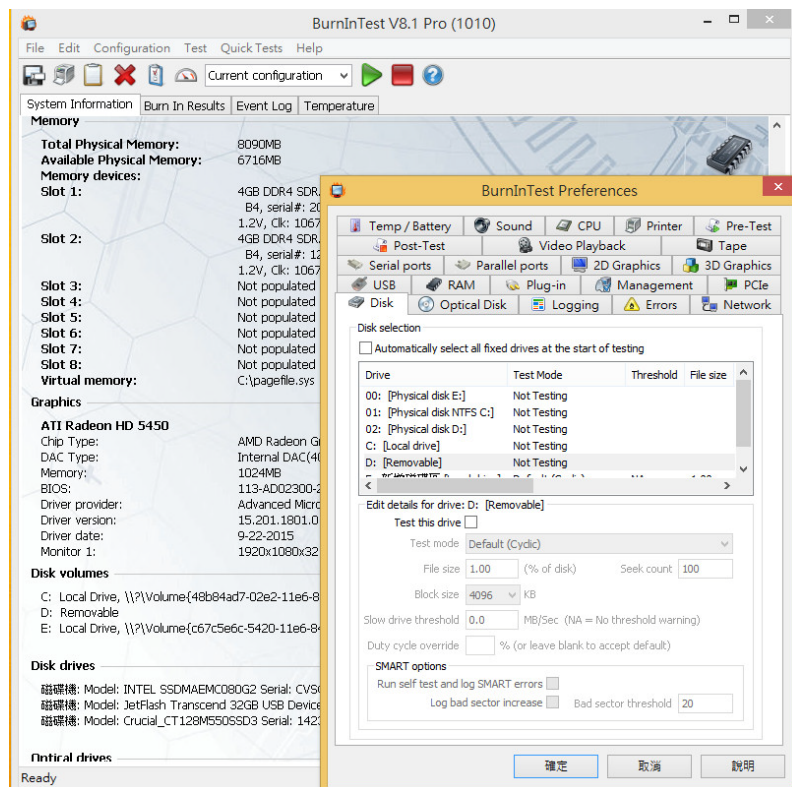
3.1 BurnInTest v8.1 Pro

3.1.1 system information for [mSATA 128GB](#) as below:

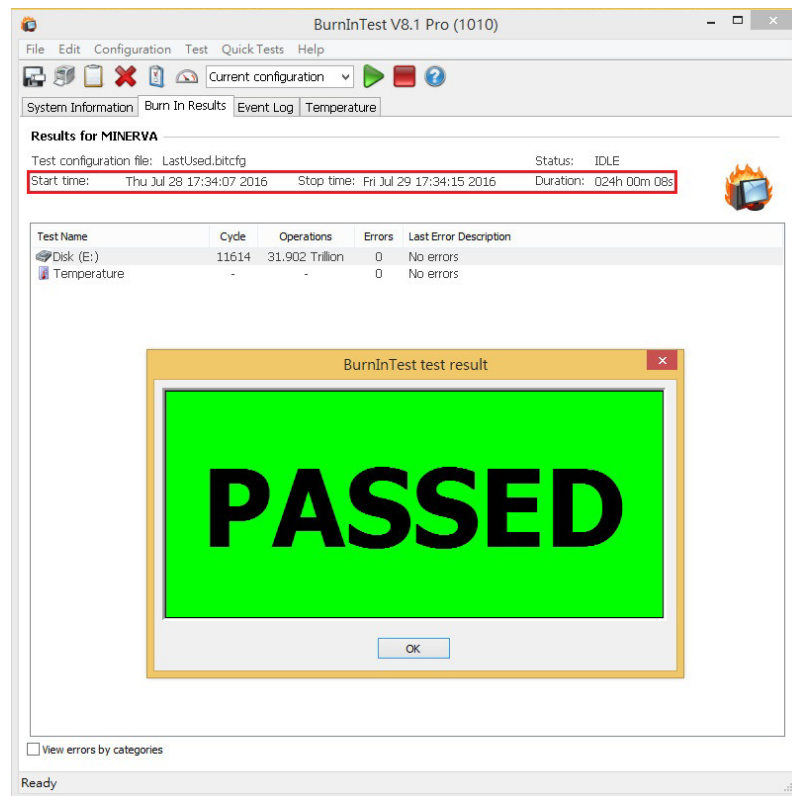


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3.1.2 show Disk test mode(10 ways cycle test)

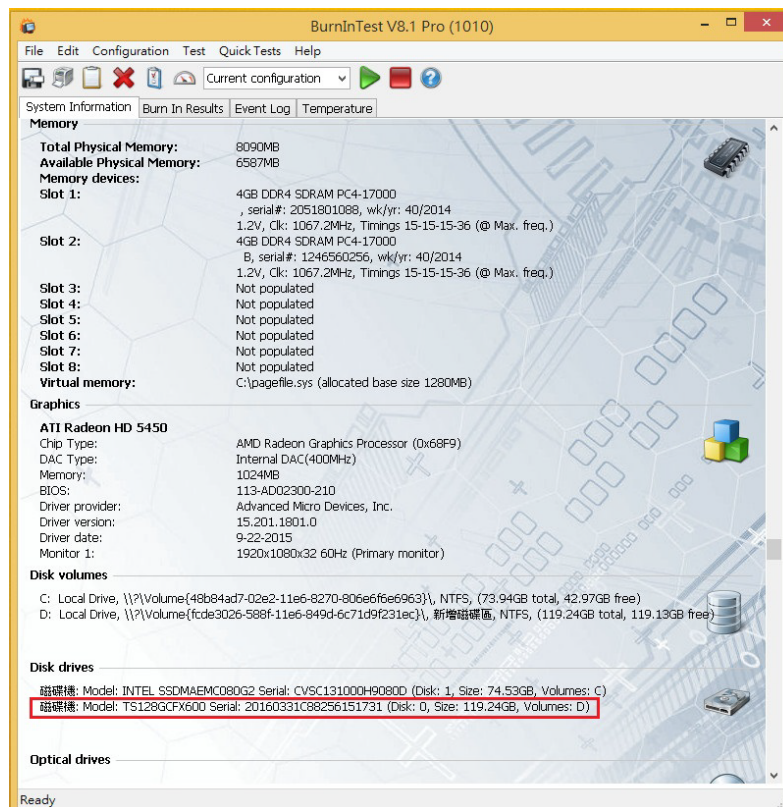
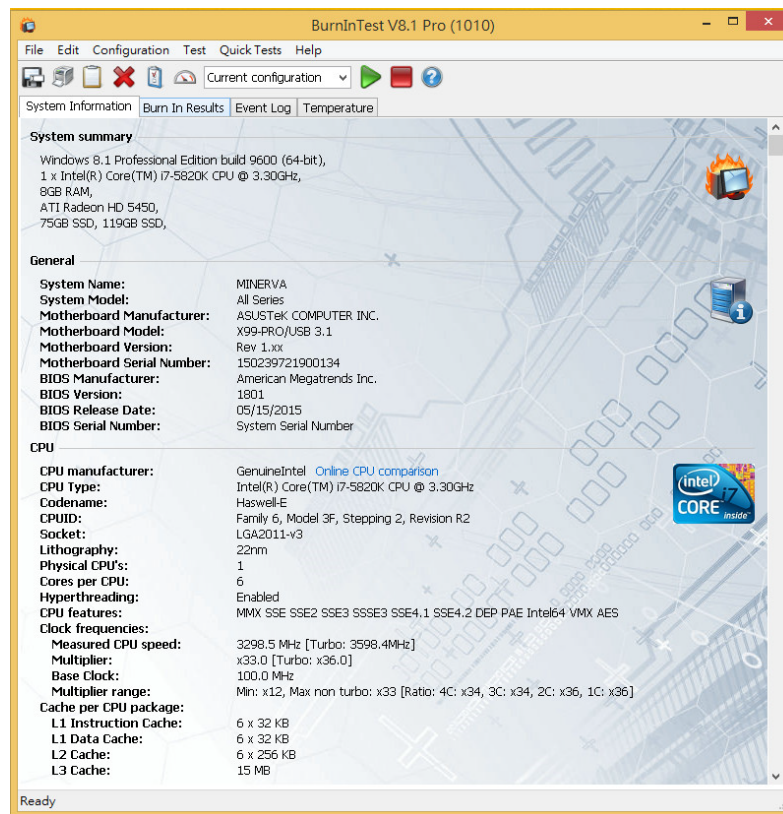


3.1.3 show 24-hour Burn-in test PASSED



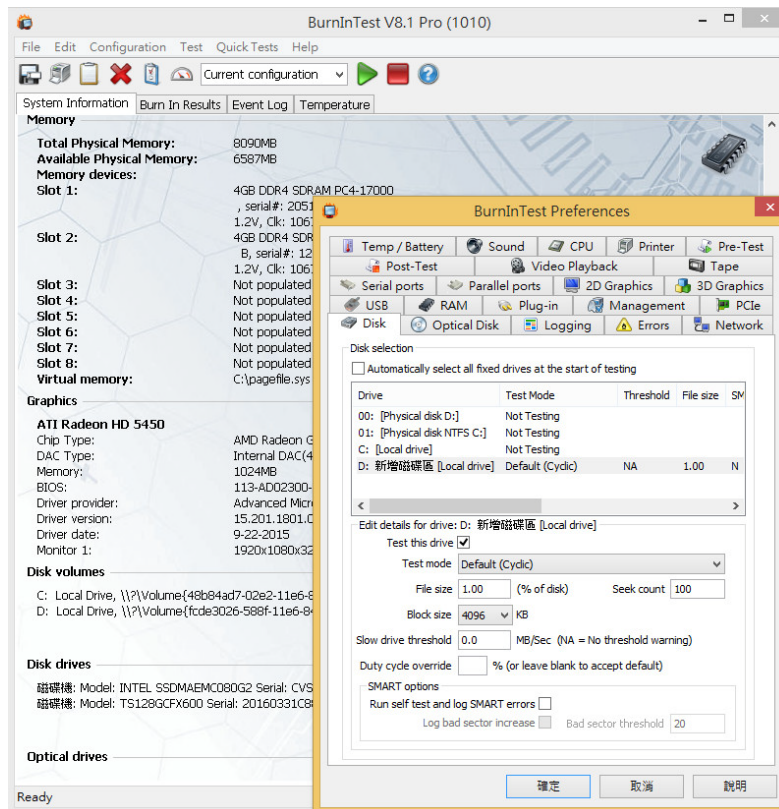
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3.2.1 system information for [CFast 128GB](#) as below:

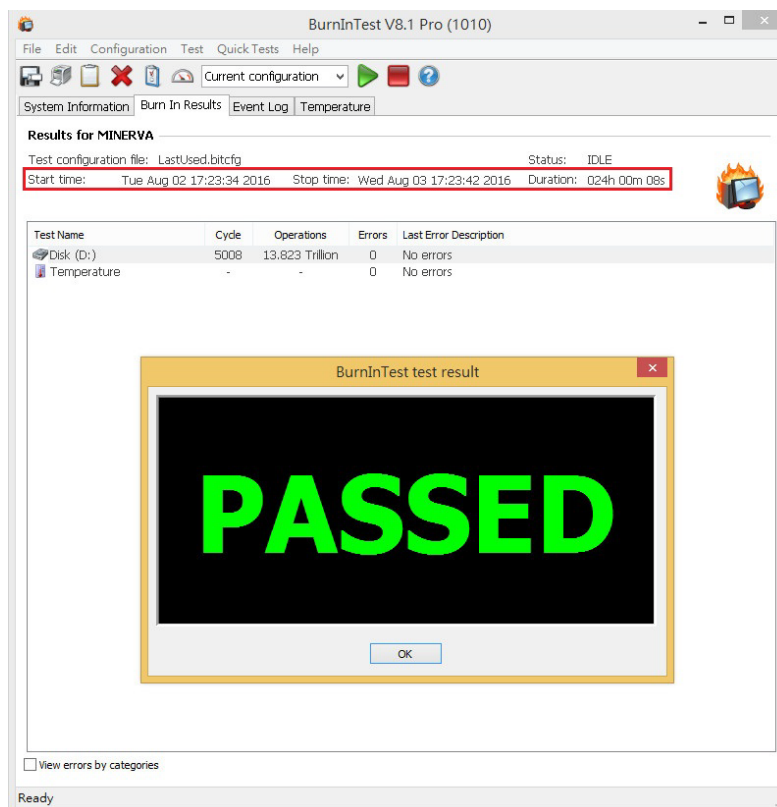


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3.2.2 show Disk test mode(10 ways cycle test)



3.2.3 show 24-hour Burn-in test PASSED



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4. Summary

- 4.1 mSATA SSD is SATA 3 Interface, I/O speed, max. to 6Gbps.
- 4.2 CFAST Card is SATA 3 Interface, I/O speed, max. to 6Gbps.
- 4.3 S2073F adapter I/O performance is based on Msata SSD or CFAST Card Card.