



MINERVA

ST964MD SATA 3 to CFast Converter Card

Performance & Burn In Test Rev. 1. 0

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1. Overview

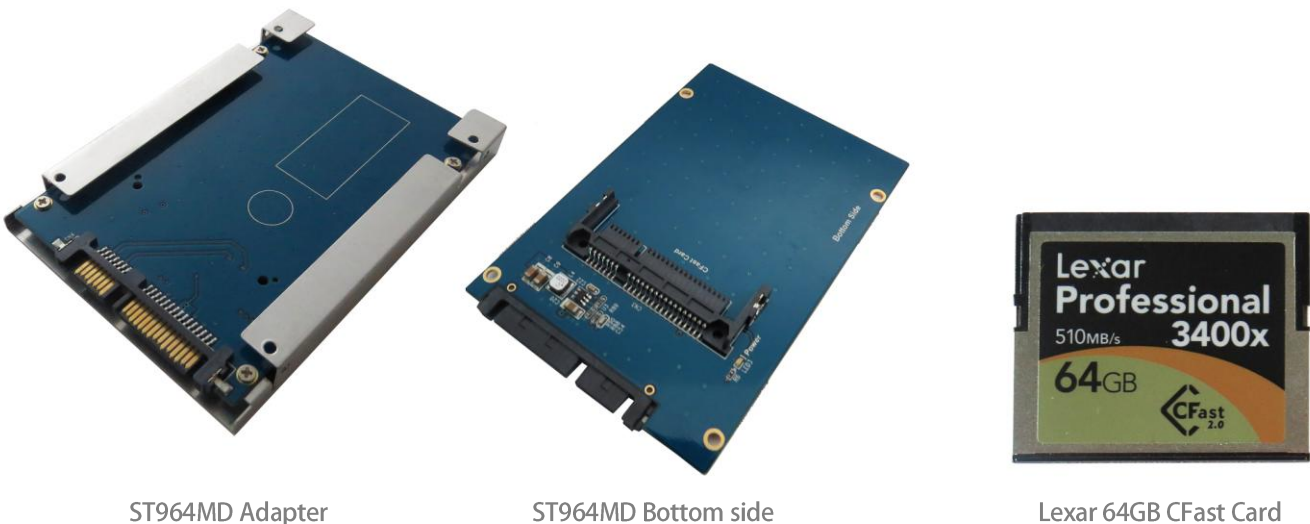
ST964MD adapter, providing CFast connector can be CFast Card converted into SATA III.

2. Tools and Results of Performance Measurement

2.1 Test Platform

M/B : GIGABYTE **Z170X UD5 TH**
CPU : Intel **i5-6500**, 3.2GHz/ 6M Cache/ LGA1150
Memory : Kingston **KVR21N15D8/8**, **DDR4-2133MHz**, **16GB**(8GB DIMM*2)
ATX Power : COOLER MASTER G750M, **750W ATX**, 12V V2.2 Power Supply
Graphic : Z170 Chipsets built-in **HD Graphics 530**
OS : Microsoft **Windows 10 64bit OS**

2.2 Test target: ST964MD adapter with **LEXAR CFast 64GB**



ST964MD Adapter

ST964MD Bottom side

Lexar 64GB CFast Card

2.3 Install Hardware

Inserts CFast Card into ST964MD converter's CFast connector, and then connect ST964MD converter to SATA port of GIGABYTE **Z170X UD5 TH**

2.4 BIOS & Windows 10 OS environment setup

2.4.1 Primary Drive installs Windows 10 64bit OS

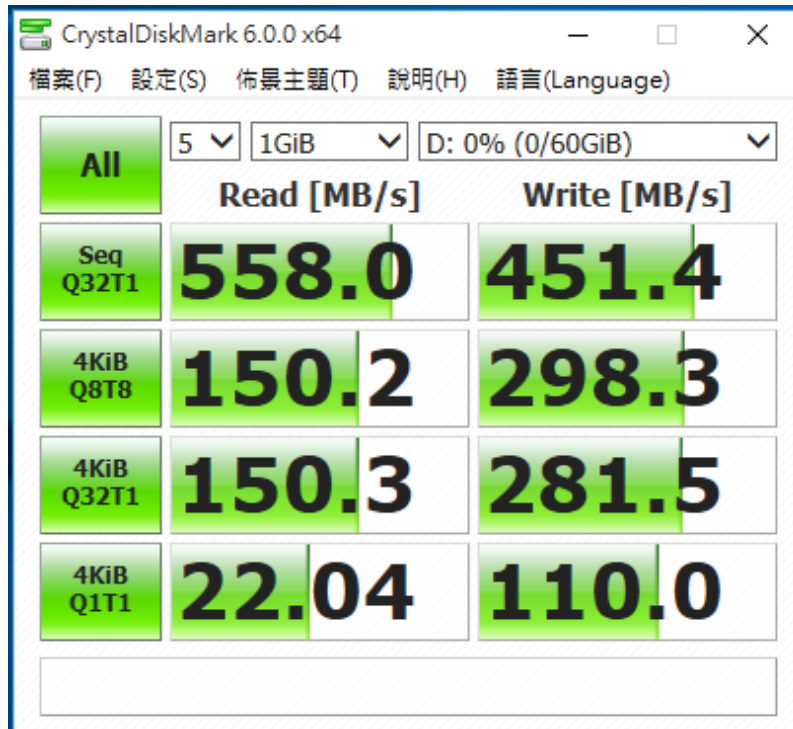
2.4.2 Secondary Drive formats CFast Card into NTFS, don't install any application.

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2.5 CrystalDiskMark 6.0.0 x64 performance test

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

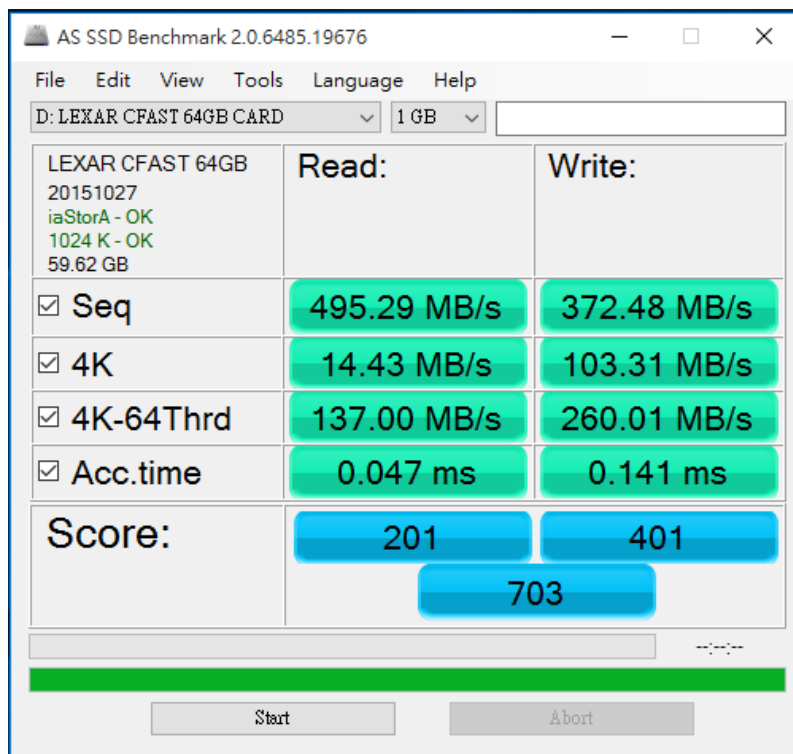
2.5.1 Shows **CFast 64GB** performance as below:



2.6 AS SSD Benchmark 2.0 performance test

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

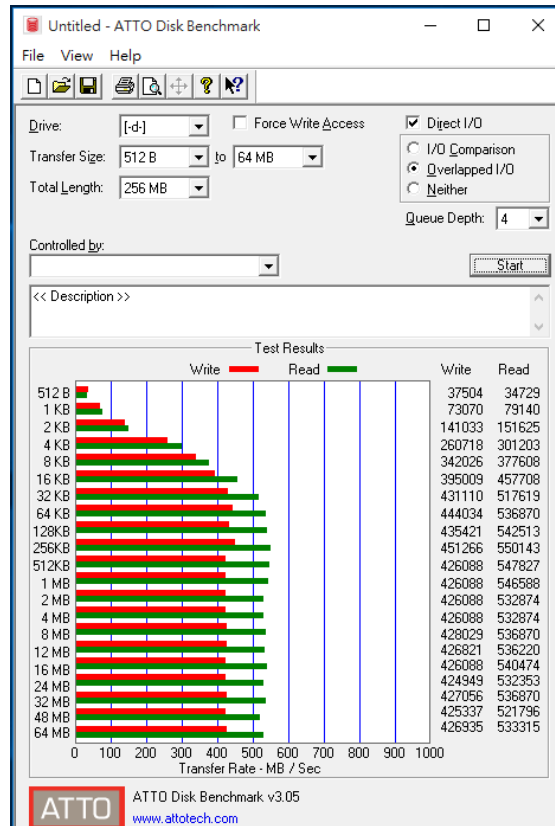
2.6.1 Shows **CFast 64GB** performance as below:



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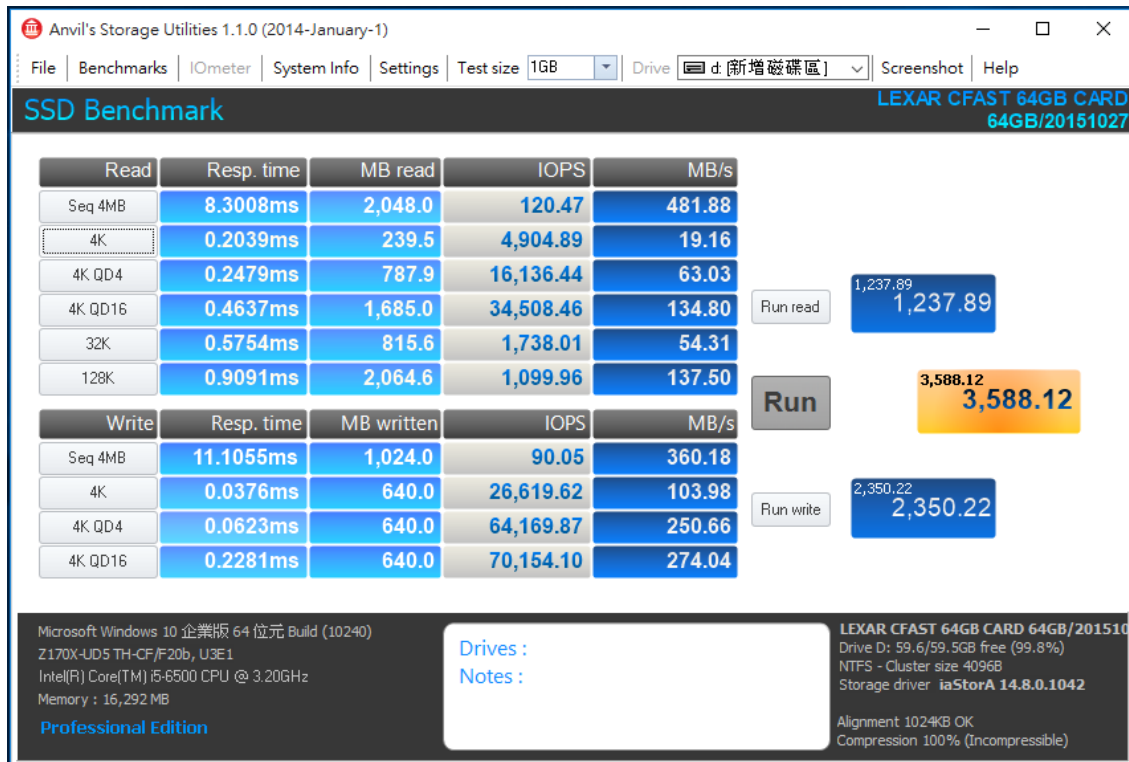
2.7 ATTO Disk Benchmark 3.0.5 performance test

2.7.1 Shows **CFast 64GB** performance as below:



2.8 AnvilBenchmark_V110_B337

2.8.1 Shows **CFast 64GB** performance as below:

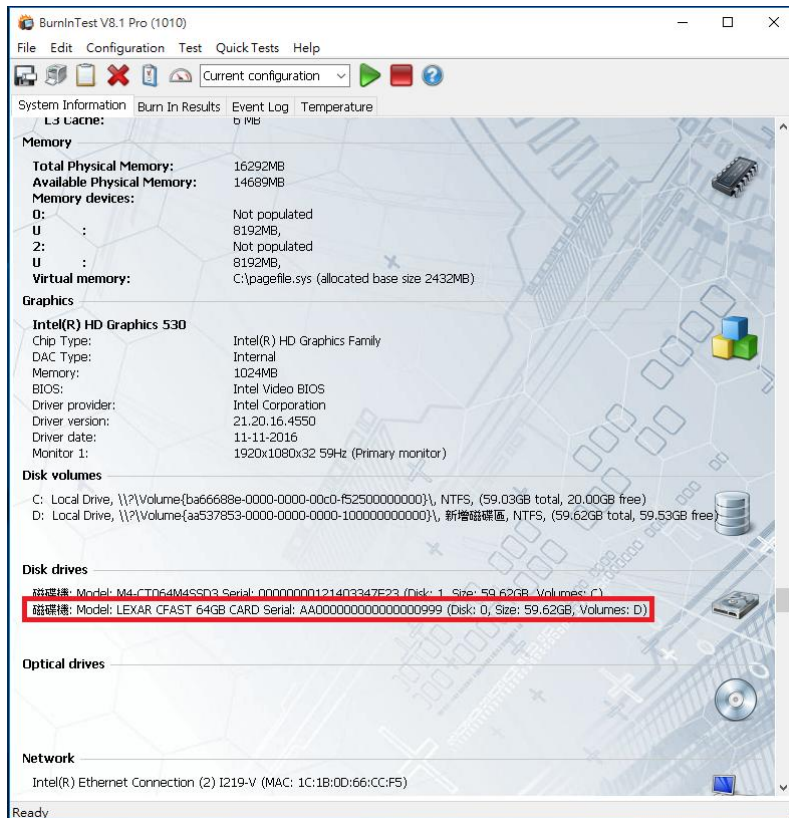
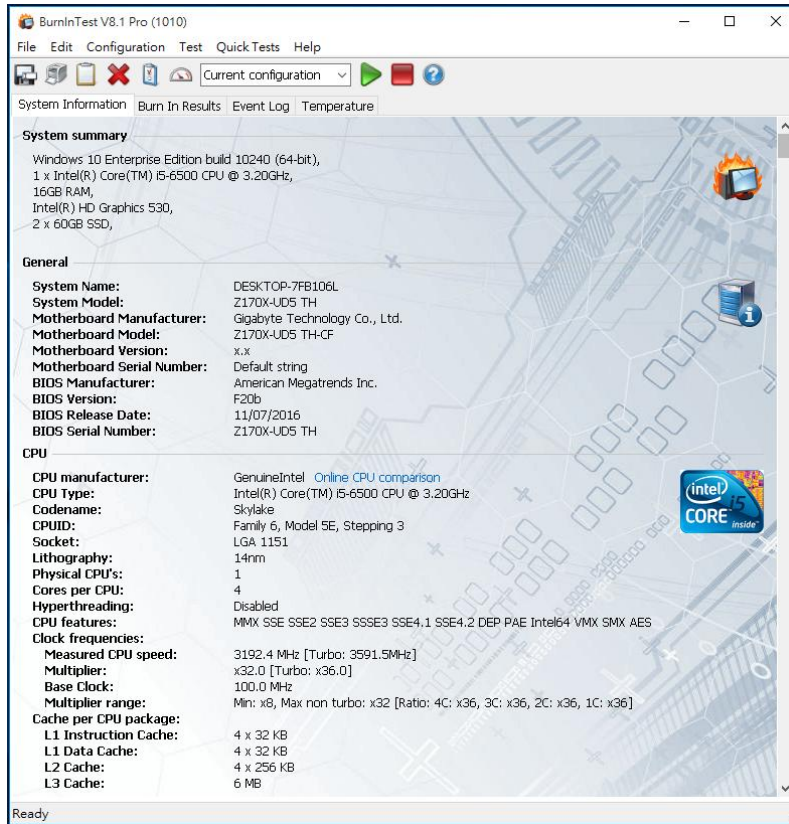


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3. Burn In Tests and Results

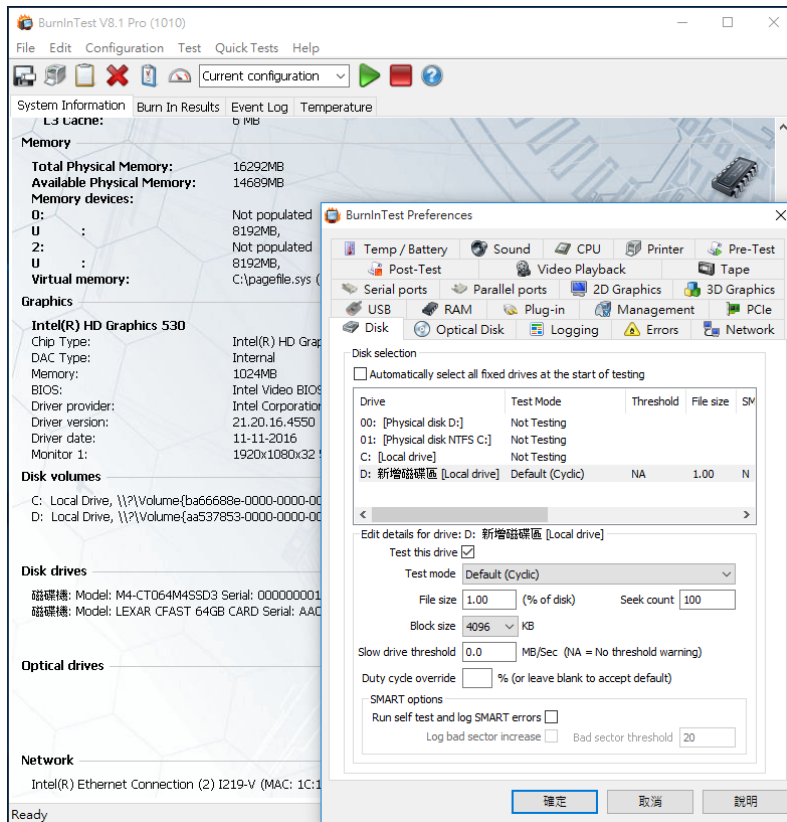
3.1 BurnInTest v8.1 Pro

3.1.1 System information for **CFast 64GB** as below:

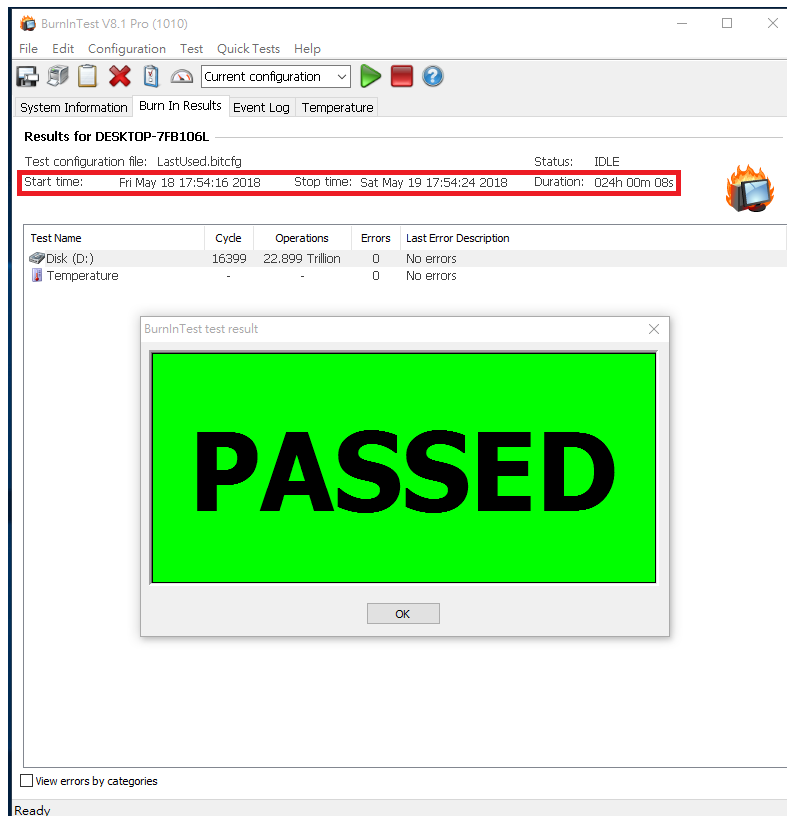


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3.2.1 Shows Disk test mode (10 ways cycle test)



3.2.3 Shows 24-hour Burn-in test PASSED



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4. Summary

- 4.1 CFast Card is SATA 3 Interface, I/O speed, max. to 6Gbps.
- 4.2 ST964MD adapter I/O performance is based on CFast Card Card.