

# Performance & Burn In Test Rev. 1.0

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### 4. Summary

## 1. Overview

AD916F adapter, build in M.2 67pin B key connector. It used SATA 7-pin cable to connect to M/B SATA III port.

# 2. Tools and Results of Performance Measurement

### 2.1 Test Platform

M/B: ASRock **Z97 Extreme 6** 

CPU: Intel i5-4426, 3.2GHz/ 6M Cache/ LGA1150

Memory: Kingston KVR16N11S8/4, DDR3-1600MHz, 8G(4GB DIMM\*2)

ATX Power: FSP RAIDER 550, 550W ATX, 12V V2.2 Power Supply

Graphic: Z97 Chipsets built-in HD Graphics 4600

OS: Microsoft Windows 8.1 64bit OS

### 2.2 Test target: AD916F adapter and M.2 NGFF SSD(LITE-ON LGT-128M6G/128GB)



AD916F Adapter AD916F + M.2 SSD LGT-128M6G

### 2.3 Install Hardware

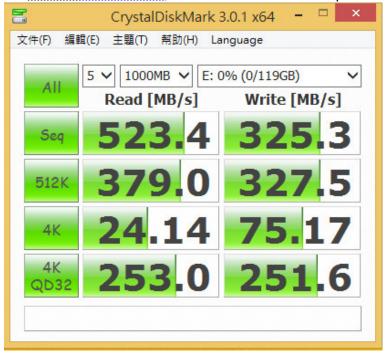
2.3.1 Insert M.2 SSD into AD916F converter's B key connector, and then with coppers, and screws to fix SSDs. (Please refer to the Installation Notes). Connect AD916F converter to SATA III Port of ASRock Z97 Extreme 6.

### 2.4 BIOS & Windows 7 OS environment setup

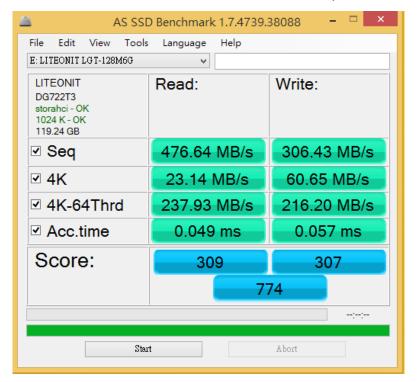
2.4.1 Install Windows 8.1 x64 OS.

- 2.5 CrystalDiskMark 3.0.1 x64 performance test

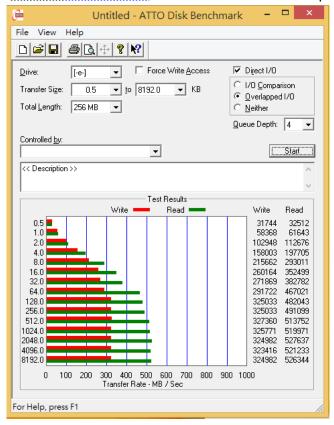
  - 2.5.1 Used LITE-ON LGT-128M6G in ASRock **Z97 Extreme 6** performance as below:



- 2.6 AS SSD Benchmark 1.7 performance test
  - Benchmark (Read & Write by MB/s, default block size = 16MB)
  - 2.6.1 Used <u>LITE-ON LGT-128M6G</u> in **ASRock Z97 Extreme 6** performance as below:



- 2.7 ATTO Disk Benchmark performance test
  - Benchmark (Sequential Read / default block size = 8MB)
  - 2.7.1 Used LITE-ON LGT-128M6G in ASRock **Z97 Extreme 6** performance as below:



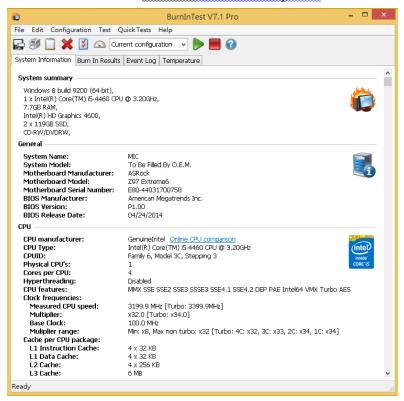
- 2.8 AnvilBenchmark V110 B337
  - 2.8.1 Used LITE-ON LGT-128M6G in ASRock Z97 Extreme 6 performance as below:

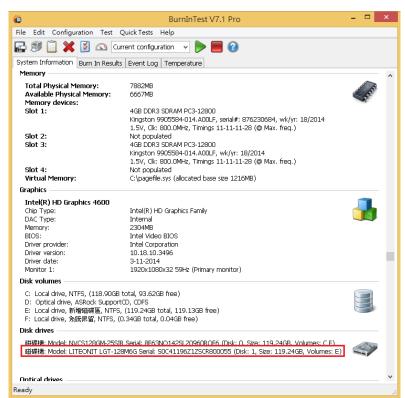


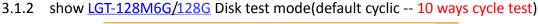
### 3. Burn In Tests and Results

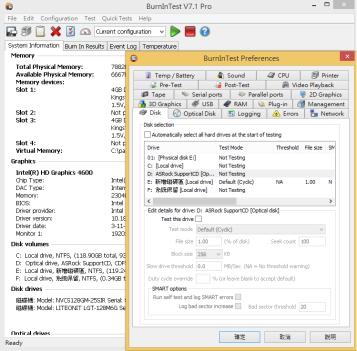
### 3.1 BurnInTest v7.1 Pro

3.1.1 **system information** for <u>LITE-ON LGT-128M6G/128G</u> as below:

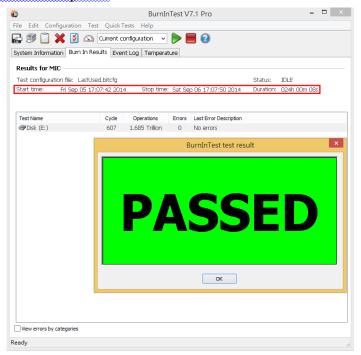








3.1.3 show LGT-128M6G/128G 24-hour Burn-in test PASSED



#### 4. Summary

- 4.1 M.2 NGFF is SATA III Interface, I/O speed, max. to 600MB/s.
- 4.2 AD916F adapter I/O performance is based on M.2 SSD.