

U2407A USB 3.1 to mSATA 2-port & M.2 NGFF 2-port

10Gbps/RAID 0 Mode Performance & Burn In Test Rev. 1.0

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4. Summary

1. Overview

U2407A is mSATA & M.2 for USB 3.1 adapter, providing USB 3.1 to SATA interface, built-in 2-port Mini PCI-e & 2-port M.2 67-pin B-key connector that can be combined into RAID 0 uses to achieve 10Gbps speed or when using a replicator, 2 ports SSD copied or deleted.

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: U2407A adapter and mSATA SSD(Crucial CT-128M550SSD3/128GBx2)







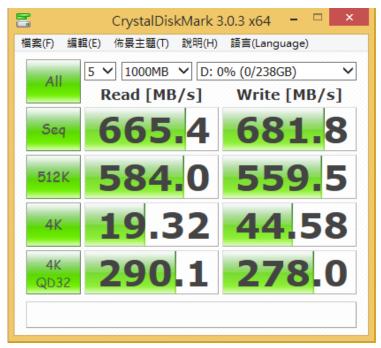
U4207A Adapter

mSATA (CT-128M550SSD3)

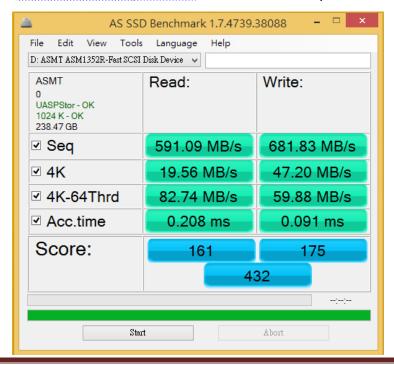
2.3 Install Hardware

- 2.3.1 Insert M.2 SSDx2 into U2407A adapter's B key connector, and then with coppers, and screws to fix SSDs. (Please refer to the Installation Notes).
 Connect U2407A adapter to ASM1142 PCI-e host of ASRock Z97 Extreme6.
- 2.4 BIOS & Windows 8 OS environment setup
 - 2.4.1 Install Windows 8.1 x64 OS.

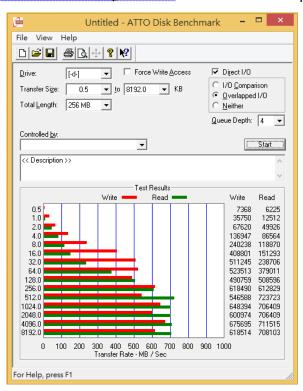
- 2.5 CrystalDiskMark 3.0.1 x64 performance test
 - Benchmark (Sequential Read & Write / default = 1MB)
 - 2.5.1 Used CT-128M550SSD3/128GBx2 in U2407A RAID 0 performance as below:



- 2.6 AS SSD Benchmark 1.7 performance test
 - Benchmark (Read & Write by MB/s, default block size = 16MB)
 - 2.6.1 Used CT-128M550SSD3/128GBx2 in U2407A RAID 0 performance as below:



- 2.7 ATTO Disk Benchmark performance test
 - Benchmark (Sequential Read / default block size = 8MB)
 - 2.7.1 Used CT-128M550SSD3/128GBx2 in U2407A RAID 0 performance as below:

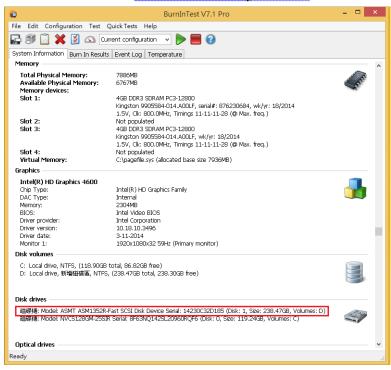


- 2.8 AnvilBenchmark V110 B337
 - 2.8.1 Used CT-128M550SSD3/128GBx2 in U2407A RAID 0 performance as below:

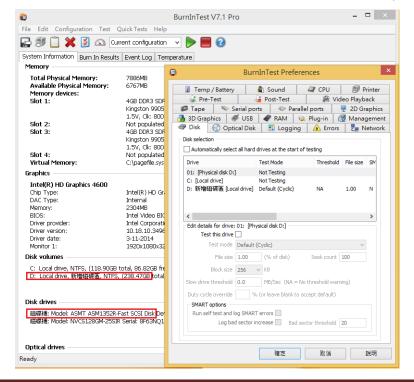


3. Burn In Tests and Results

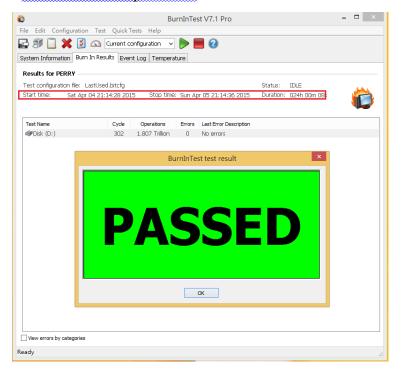
- 3.1 BurnInTest v7.1 Pro
 - 3.1.1 system information for CT-128M550SSD3/128GBx2 in U2407A RAID 0 as below:



3.1.2 show CT-128M550SSD3/128GBx2 in U2407A RAID 0 test mode(10 ways cycle)



3.1.3 show CT-128M550SSD3/128GBx2 in U2407A RAID 0 24-hour Burn-in test PASSED



4. Summary

- 4.1 U2407A is USB 3.1 10Gbps Interface, I/O speed, max. to 800MB/s.
- 4.2 U2407A adapter I/O performance is based on mSATA SSD.