



**USB 3.1 Gen 2 for 2.5" SATA, mSATA SSD & M.2 SSD with type-C**

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## **Performance & Burn In Test Rev. 1.0 for 2.5" SATA SSD**

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# USB 3.1 type-C for 2.5" SATA, mSATA SSD & M.2 SSD adapter

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## 1. Overview

U6335A adapter, built-in USB3.1 type-C connectors, provides one SATA connector, one M.2 B-key connector and one Mini PCI-e connector. First inserts 2.5" SATA SSD, using USB A-type to type-C cable to connect to the host, 2.5" SATA SSD can work.

## 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, [8GB\(4GB DIMM\\*2\)](#)

ATX Power : COOLER MASTER G750M, [750W ATX](#), 12V V2.31 Power Supply

Graphic : ATI Radeon [HD Graphics 5450](#) Graphics Processor

OS : Microsoft [Windows 10 64bit OS](#)

### 2.2 Test target: U6335A adapter and Crucial [2.5" 128GB\(CT128M550SSD1\)](#)



U6335A Adapter



USB 3.1 A to C type Cable



Crucial M550 128GB SSD

### 2.3 Install Hardware

Inserts 2.5" SATA SSD into U6335A adapter, Then this adapter through USB cable to connect to USB3.1 port of ASUS [X99-PRO/USB3.1](#)

### 2.4 BIOS & Windows 10 OS environment setup

#### 2.4.1 Install Windows 10 64bit OS.

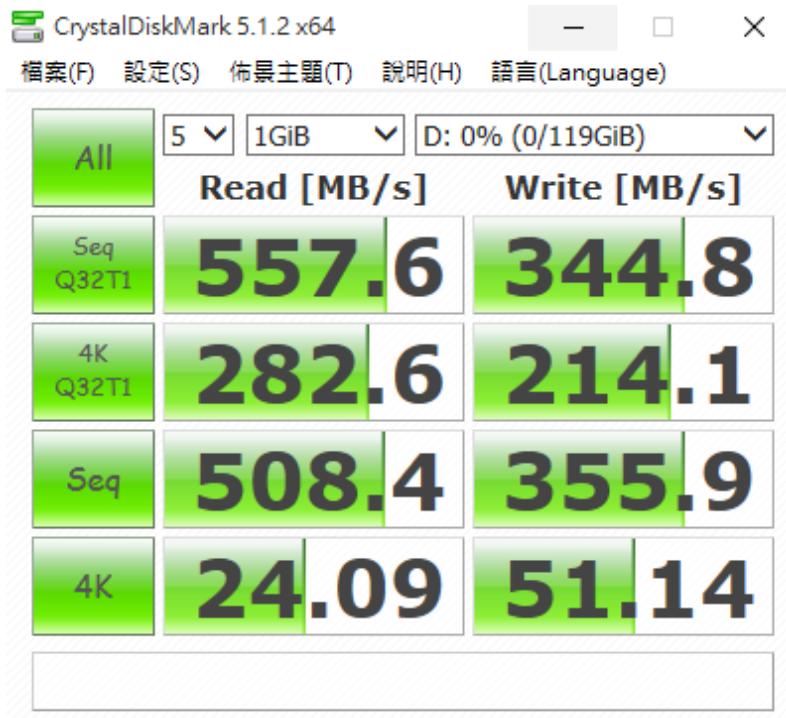
2.4.2 In Windows 10, U6335A enclosure is formatted to NTFS Mode. Don't install any program.

# USB 3.1 type-C for 2.5" SATA, mSATA SSD & M.2 SSD adapter

## 2.5 CrystalDiskMark 5.1.2 x64 performance test

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

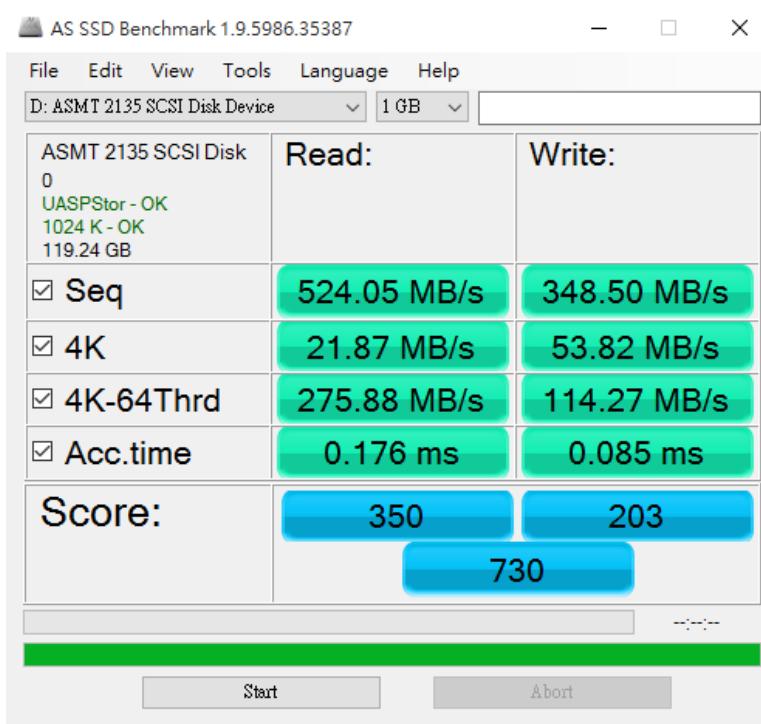
2.5.1 show Crucial M550 [CT128M550SSD1 2.5" 128GB](#) performance as below:



## 2.6 AS SSD Benchmark 1.9 performance test

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

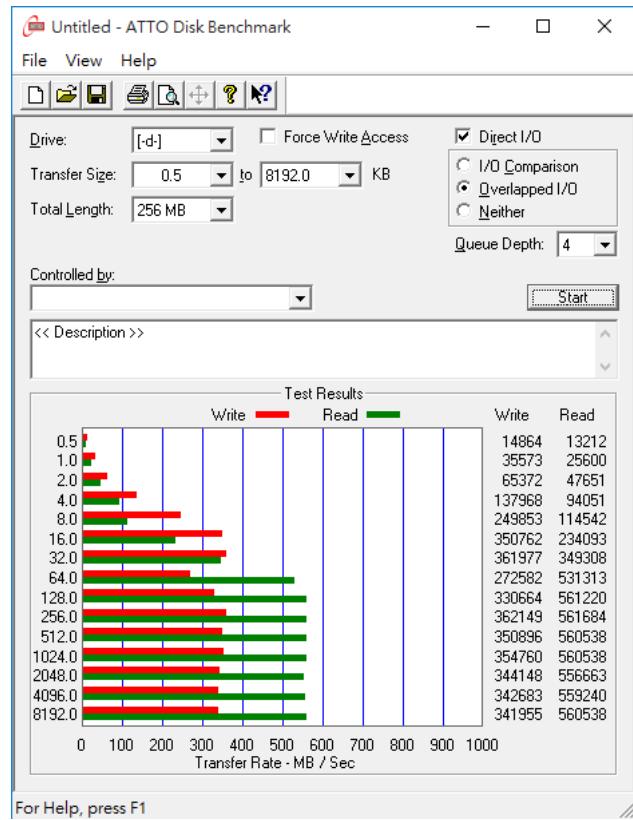
2.6.1 show Crucial M550 [CT128M550SSD1 2.5" 128GB](#) performance as below:



# USB 3.1 type-C for 2.5" SATA, mSATA SSD & M.2 SSD adapter

## 2.7 ATTO Disk Benchamrk 2.47 performance test

2.7.1 show Crucial M550 CT128M550SSD1 2.5" 128GB performance as below:



## 2.8 AnvilBenchmark\_V110\_B337

2.8.1 show Crucial M550 CT128M550SSD1 2.5" 128GB performance as below:

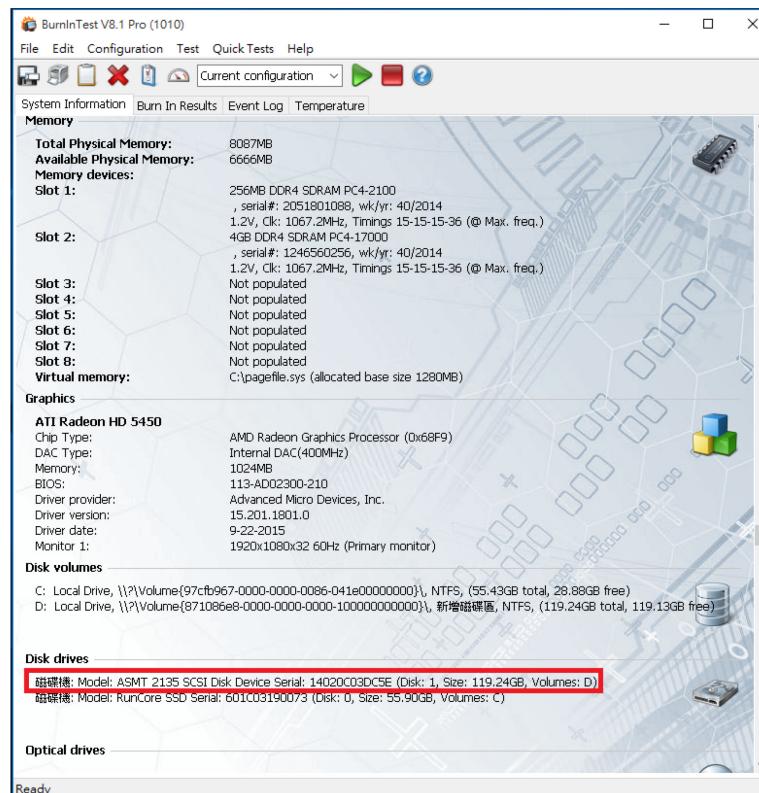
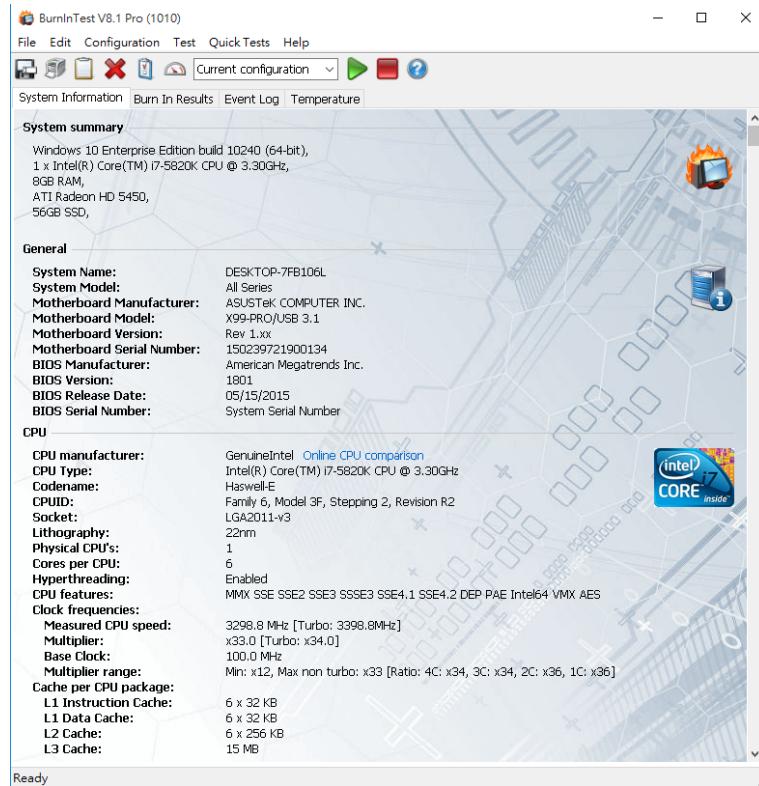


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## 3. Burn In Tests and Results

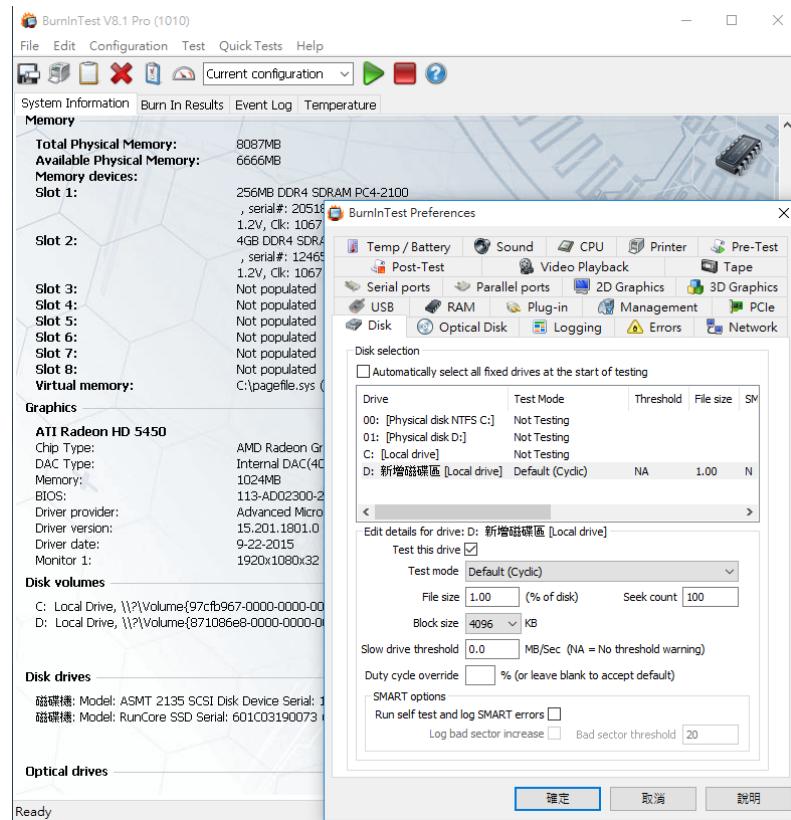
### 3.1 BurnInTest v8.1 Pro

#### 3.1.1 system information for Crucial M550 CT128M550SSD1 2.5" 128GB as below:

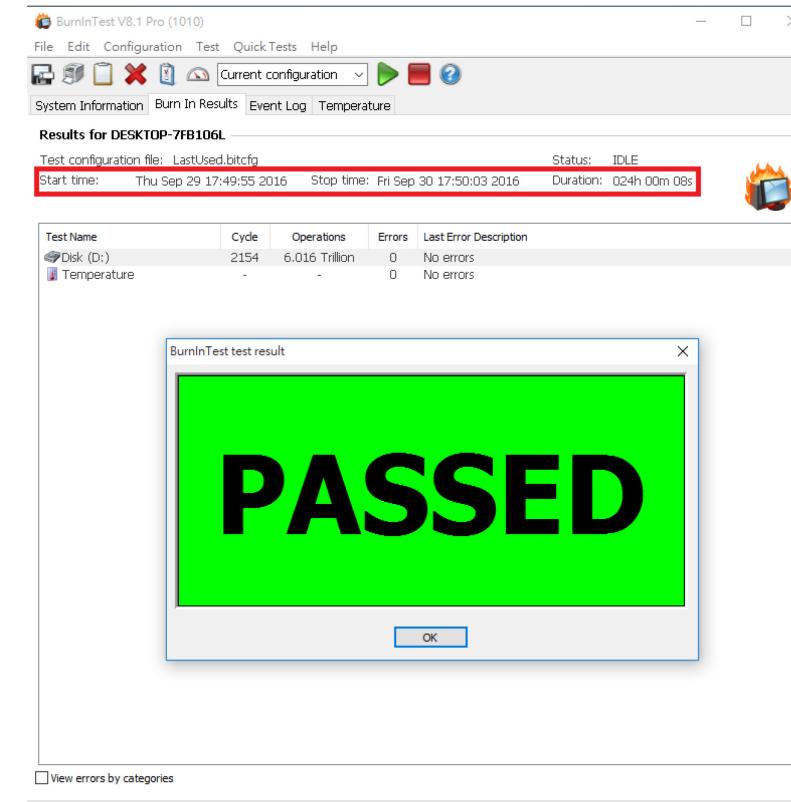


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## 3.1.2 show Disk test mode( 10 ways cycle test)



## 3.1.3 show 24-hour Burn-in test PASSED



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## **4. Summary**

- 4.1 USB 3.1 is 10Gbps Interface.
- 4.2 SATA III is 6Gbps Interface.
- 4.3 U6335A enclosure I/O performance is based on 2.5" SATA.