



# MINERVA

## PCIe 3.0 OCulink 4i,40cm cable

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### Performance & Burn In Test Rev. 1. 0

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# SFF-8612, 40cm Cable

## 1. Overview

The OCulink cable can be compliant with PCIe 3.0 Spec.

## 2. Tools and Results of Performance Measurement

### 2.1 Test Platform

- M/B : GIGABYTE **X570S AORUS MASTER**
- CPU : AMD **Ryzen 7, 3700X 8-Core**
- Memory : Kingston **KVR26N19D8/16, DDR4-2666MHz, 32GB**(16GB DIMM\*2)
- ATX Power : COOLER MASTER G750M, **750W ATX**, 12V V2.2 Power Supply
- AIC: PE2404 M.2 PCIe 3.0 to OCulink 4i
- Adapter: PD426A OCulink to M.2 PCIe 3.0 Adapter
- Cable: SFF-8611 4i Male to Male, **40cm** Cable
- OS : Microsoft **Windows 10 64bit OS**

### 2.2 Test target: PE2404 adapter, PD246A adapter & M.2 Samsung SM961 512GB NVMe SSD



M/B : GIGABYTE X570 AORUS MASTER



## SFF-8612, 40cm Cable

### 2.3 Install Hardware

Inserts PE2404 adapter into **X570S AORUS MASTER's** M.2 M-key connector and then using OCulink cable, one side inserts into PE2404 adapter and another side inserts into PD426A adapter's Oculink connector. The PD426A adapter inserts into M.2 NVMe SSD.

### 2.4 BIOS & Windows 10 OS environment setup

- 2.4.1 Primary SATA SSD installed Windows 10 OS.
- 2.4.2 M.2 NVMe SSD, formatted to NTFS Mode. Don't install any program.

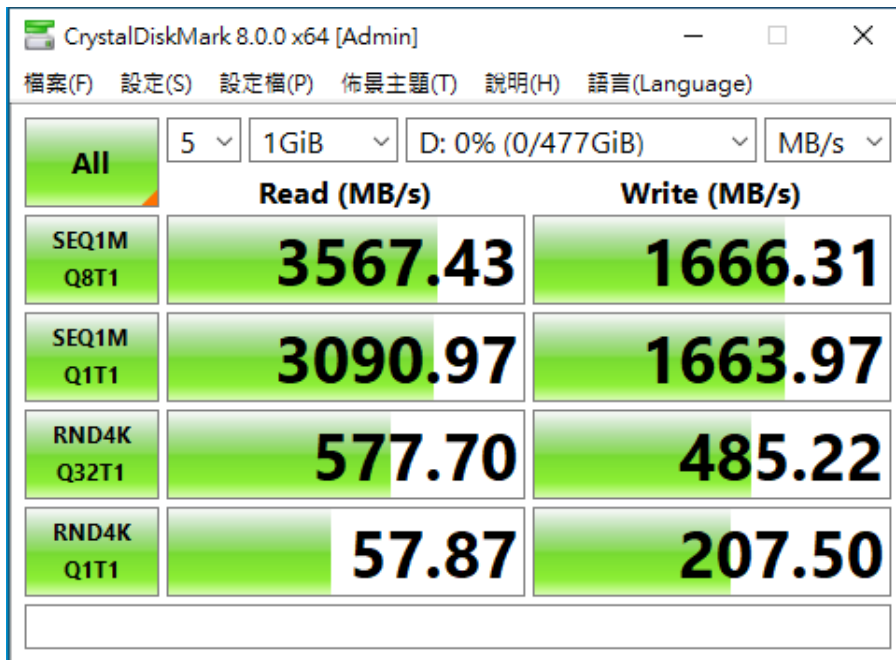


# SFF-8612, 40cm Cable

## 2.5 CrystalDiskMark 8.0 x64 performance test

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

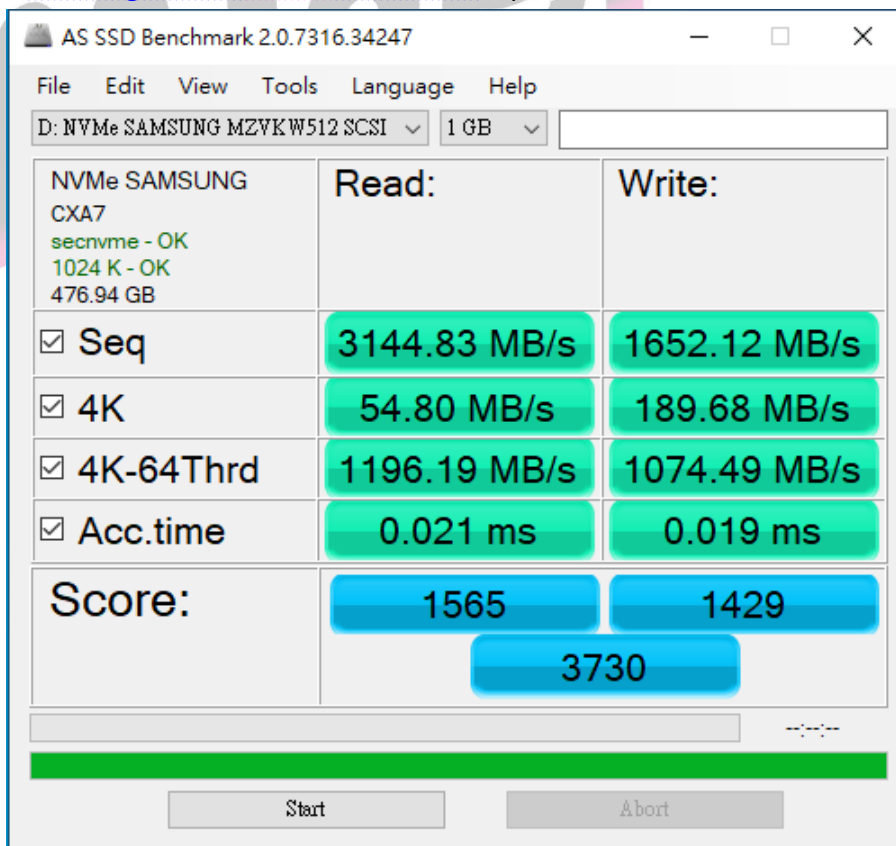
2.5.1 [Samsung SM961 512GB NVMe SSD](#) performance as below:



## 2.6 AS SSD Benchmark 2.0.7 performance test

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

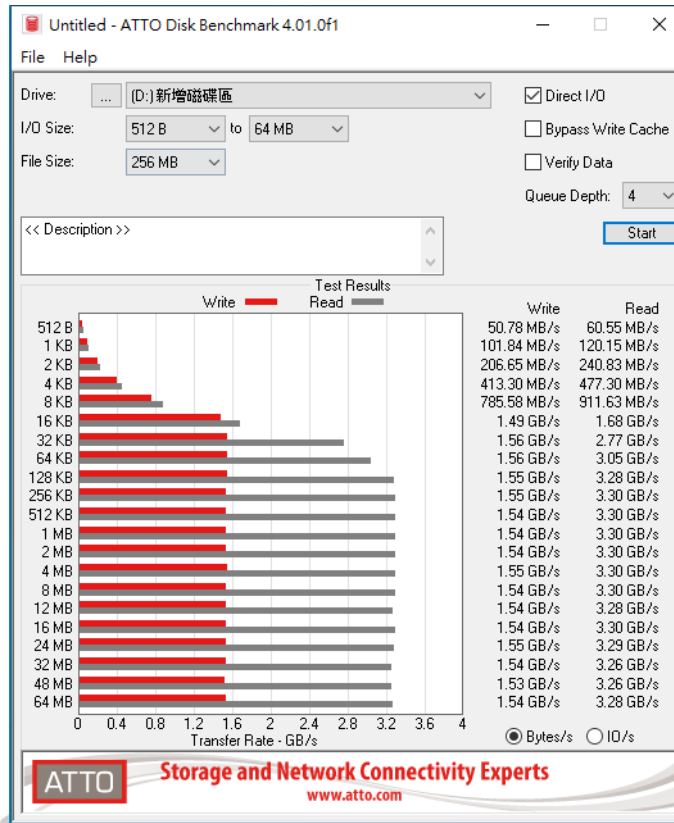
2.6.1 [Samsung SM961 512GB NVMe SSD](#) performance as below:



# SFF-8612, 40cm Cable

## 2.7 ATTO Disk Benchmark 4.01 performance test

### 2.7.1 Samsung SM961 512GB NVMe SSD performance as below:



## 2.8 AnvilBenchmark\_V110\_B337

### 2.8.1 Samsung SM961 512GB NVMe SSD performance as below:

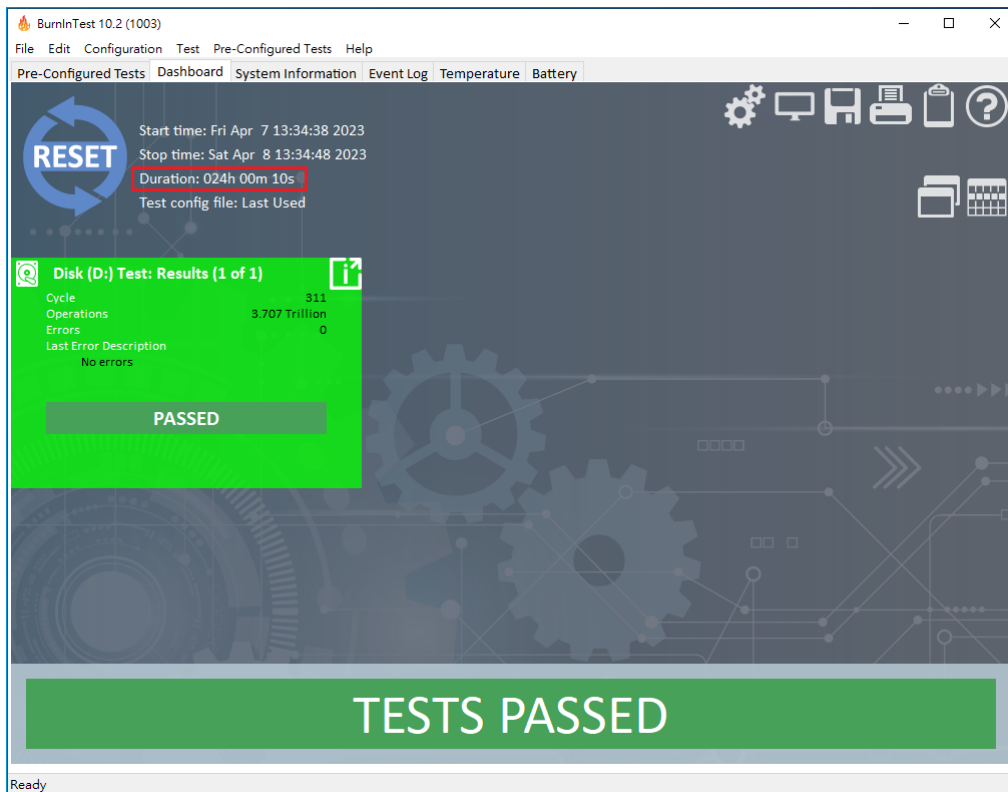


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## 3. Burn In Tests and Results

3.1 BurnInTest v8.1 Pro for [Samsung SM961 512GB NVMe SSD](#)

3.3.1 24-hour Burn-in test **PASSED**



## 4. Summary

4.1 M.2 NVMe SSD is PCI-e Gen 3 / 4 Lanes Interface, I/O speed, max. to 32Gbps.

4.2 OCulink cable performance is based on M.2 NVMe SSD.