

Notice: Use built-in Power Cord cable connection

Performance & Burn In Test Rev. 1. 1

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1. Overview

This adapter can support PCIe Gen 4, 16GT / s high-speed transmission, and provides M.2 NVMe SSD to EDSFF 1C conversion.

2. Tools and Results of Performance Measurement

2.1 Test Platform:

M/B: GIGABYTE X570 AORUS MASTER
CPU: AMD Ryzen 7, 3700X 8-Core

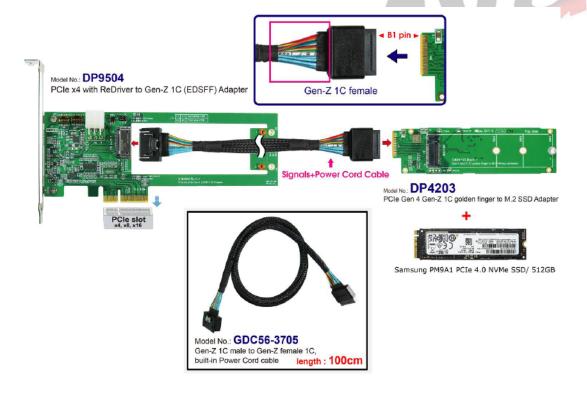
Memory: Kingston KVR26N19D8/16, DDR4-2666MHz, 32GB(16GB DIMM*2)
ATX Power: COOLER MASTER G750M, 750W ATX, 12V V2.2 Power Supply
AIC: DP9504 PCle x4 Gen 4 with Redriver to Gen-Z 1C Add-In Card

Adapter: EDSFF(Gen-Z) 1C PCle Gen 4 to M.2 NVMe Adapter

Cable: Gen-Z 1C Male to Gen-Z 1C Female bulit-in Power cord, 100cm Cable

OS: Microsoft Windows 10 64bit OS

2.2 Test target: DP4203 Adapter & Samsung PM9A1 M.2 / 512GB NVMe SSD



2.3 Install Hardware

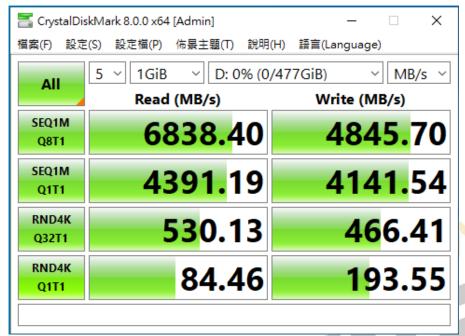
Inserts M.2 NVMe SSD into DP4203 adapter, and connects DP4203 adapter to DP9504 AIC through Gen-Z 1C Male to Female cable and then the DP9504 plugs into PCIe Slot of GIGABYTE X570 AORUS MASTER

2.4 BIOS & Windows 10 OS environment setup

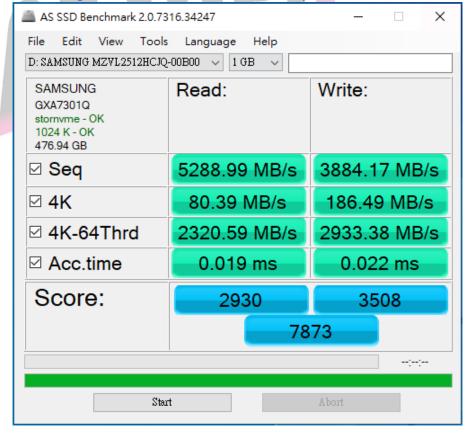
- 2.4.1 Primary SATA SSD installed Windows 10 OS.
- 2.4.2 M.2 NVMe SSD, formatted to NTFS Mode. Don't install any program.



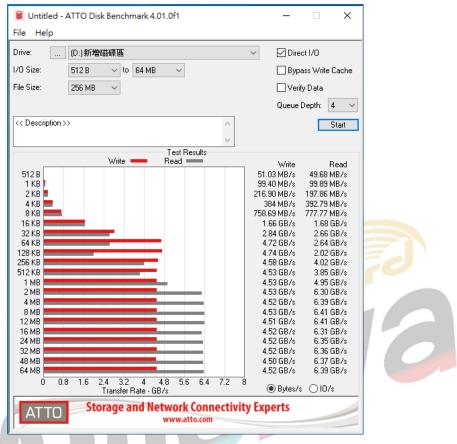
- 2.5 CrystalDiskMark 8.0 x64 performance test
 - Benchmark (Sequential Read & Write / default = 1MB)
 - 2.5.1 Samsung PM9A1 M.2 / 512GB NVMe SSD performance as below:



- 2.6 AS SSD Benchmark 2.0.7 performance test
 - Benchmark (Read & Write by MB/s, default block size = 16MB)
 - 2.6.1 Samsung PM9A1 M.2 / 512GB NVMe SSD performance as below:



- 2.7 ATTO Disk Benchamrk 4.01 performance test
 - 2.7.1 Samsung PM9A1 M.2 / 512GB NVMe SSD performance as below:



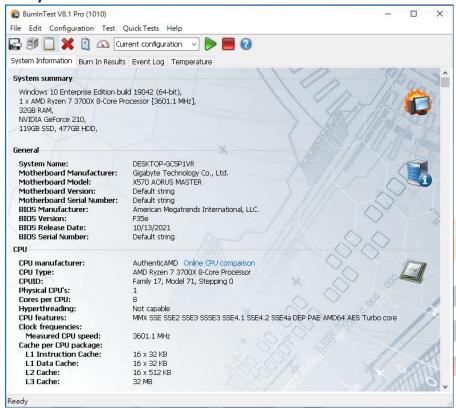
- 2.8 AnvilBenchmark V110 B337
 - 2.8.1 Samsung PM9A1 M.2 / 512GB NVMe SSD performance as below:



3. Burn In Tests and Results

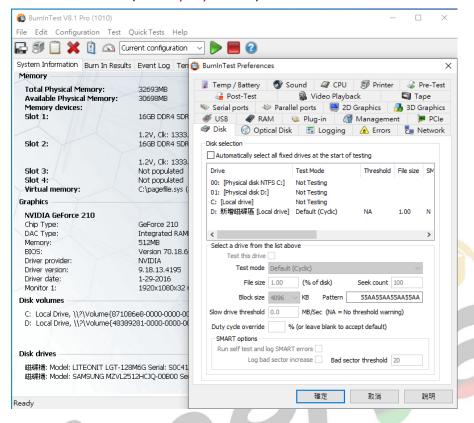
3.1 BurnInTest

3.1.1 **System Information** as below:

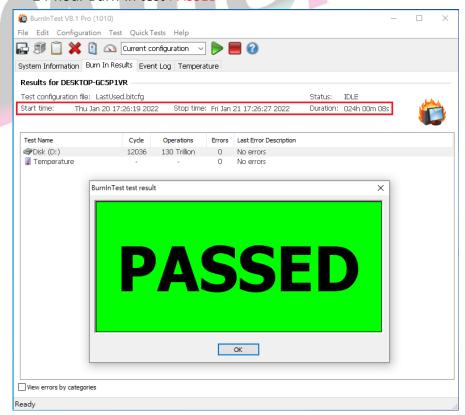




3.1.2 Disk test mode(10 ways cycle test)



3.1.3 24-hour Burn-in test PASSED



4. **Summary**

- 4.1 M.2 NVMe SSD is PCIe Gen 4, 16GT/s , 4 Lanes Interface, I/O speed, max. to 64Gbps.
- 4.2 DP4203 Adapter I/O performance is based on M.2 NVMe SSD.

