Performance & Burn In Test Rev. 1. 0

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1. Overview

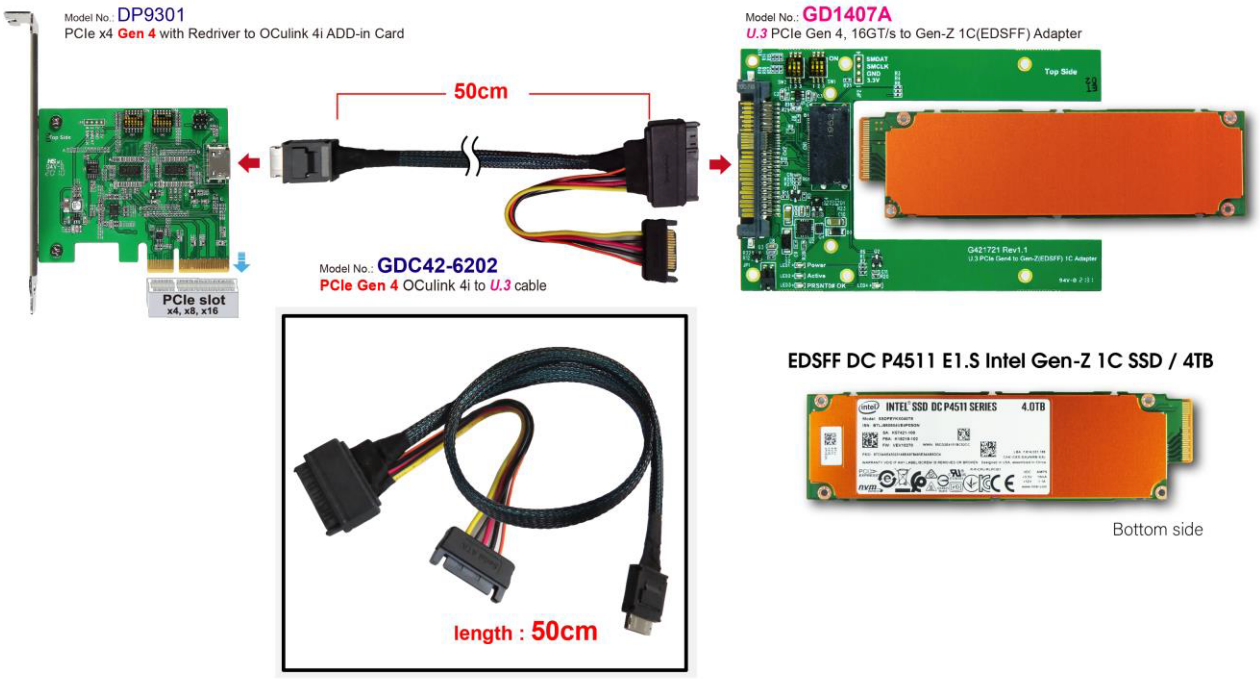
This adapter supports PCIe Gen 4, 16GT/s high-speed transmission, and provides EDSFF 1C NVMe SSD to U.3 conversion.

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:	DP9301 PCIe x4 to OCulink 4i Add-In Card
Adapter:	GD1407A U.3 to Gen-Z 1C Storage Adapter
Cable:	SFF-8611 4i to U.3 Cable, 50cm
OS :	Microsoft **Windows 10 64bit OS**

2.2 Test target: GD1407A adapter and Intel EDSFF 1C 4TB SSD



2.3 Install Hardware

Inserts Intel EDSFF E1.S 1C 4TB NVMe SSD into GD1407A converter's Gen-Z 1C female connector. Connect GD1407A to DP9301 AIC(PCIe x4 Gen 4 to Oculink 4i) using SFF-8611 to U.3 cable, plugs DP9301 adapter into **PCIe slot of** GIGABYTE **X570 AORUS MASTER.**

2.4 BIOS & Windows 10 OS environment setup

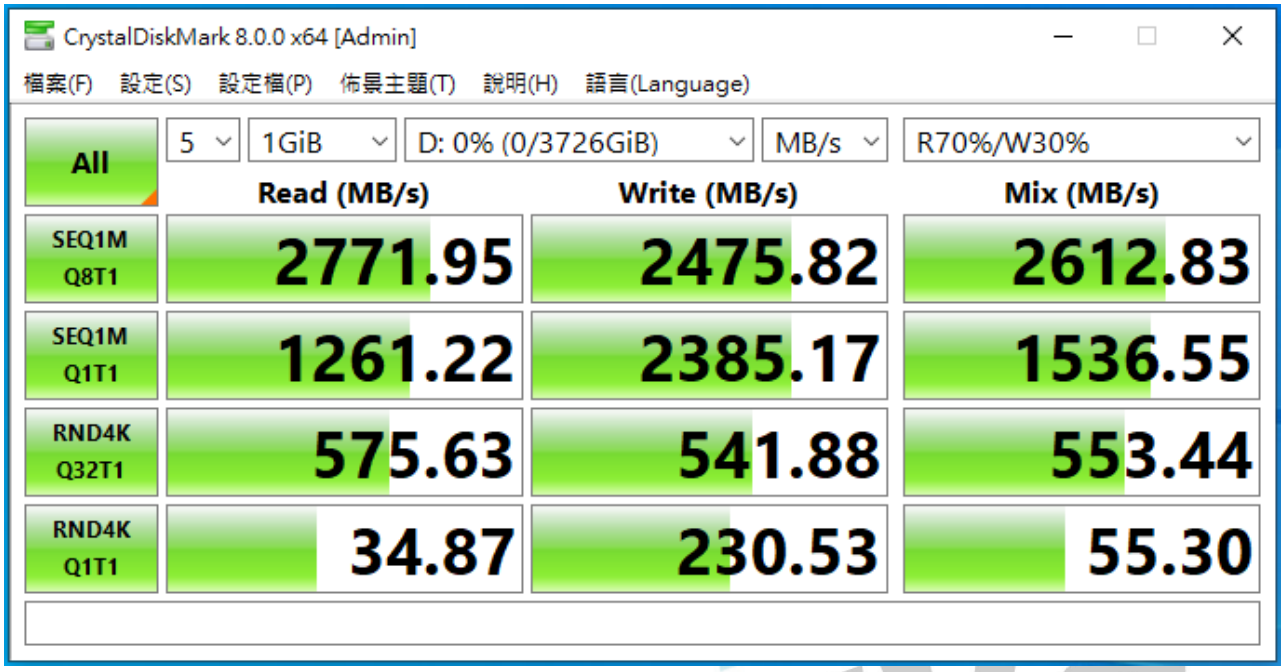
2.4.1 Primary SATA SSD installed Windows 10 OS.

2.4.2 EDSFF E1.S 1C 4TB SSD, formatted to NTFS Mode. Don't install any program.

2.5 CrystalDiskMark 8.0.0 x64 performance test

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

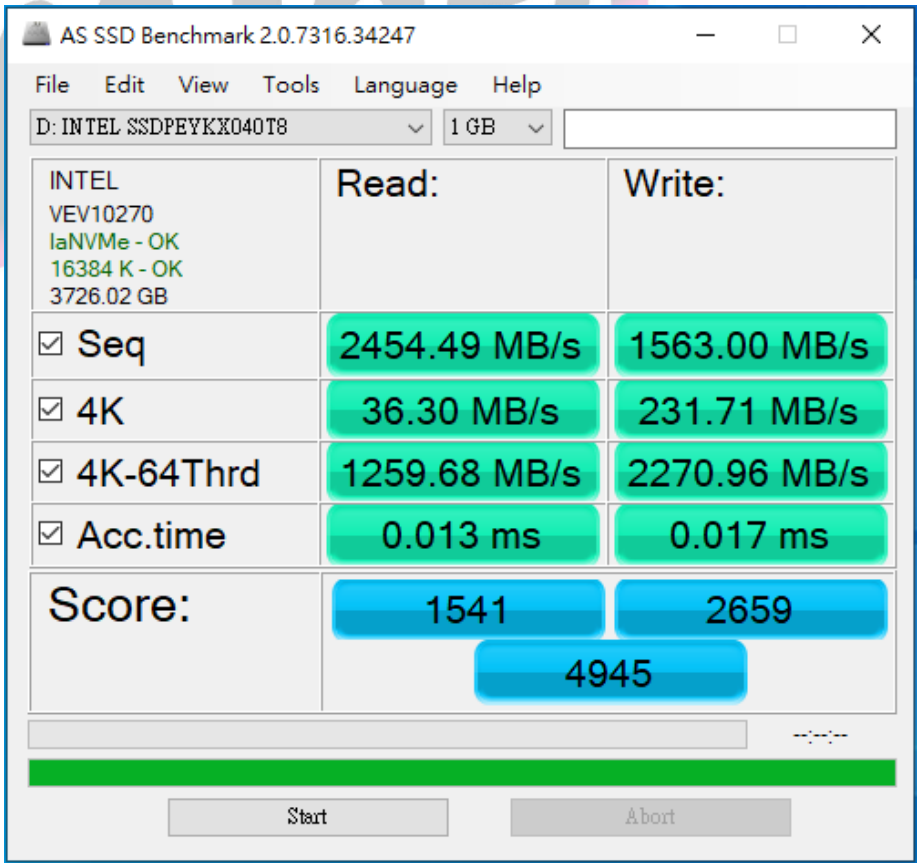
2.5.1 Intel **DC P4511 EDSFF E.1S** / **4TB** performance as below:



2.6 AS SSD Benchmark 2.0.7 performance test

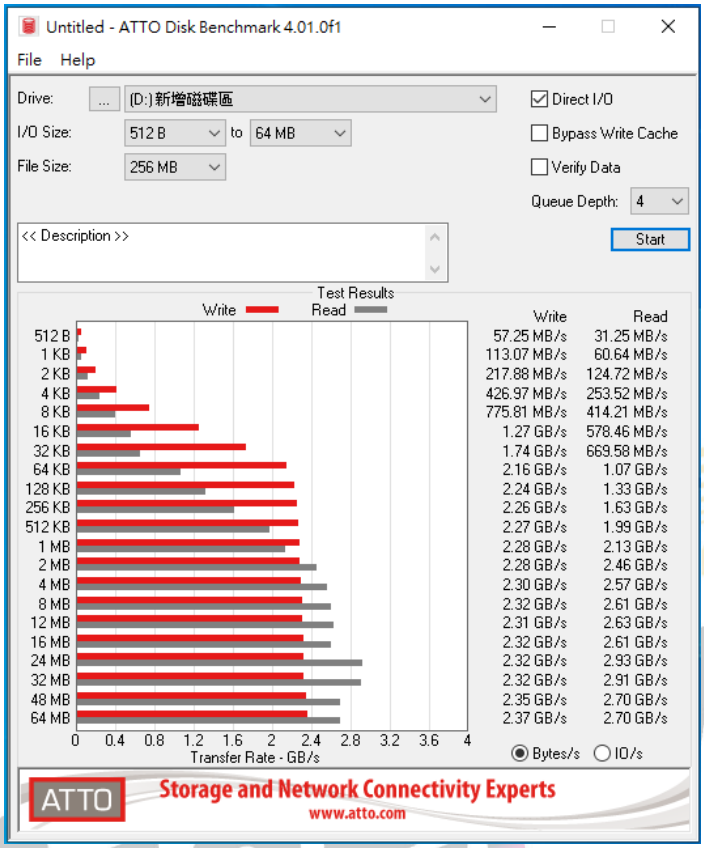
※Benchmark (Read & Write by MB/s, default block size = 16MB)

2.6.1 Intel **DC P4511 EDSFF E.1S** / **4TB** performance as below:



2.7 ATTO Disk Benchamrk 4.0.1 performance test

2.7.1 Intel **DC P4511 EDSFF E.1S** / **4TB** performance as below:



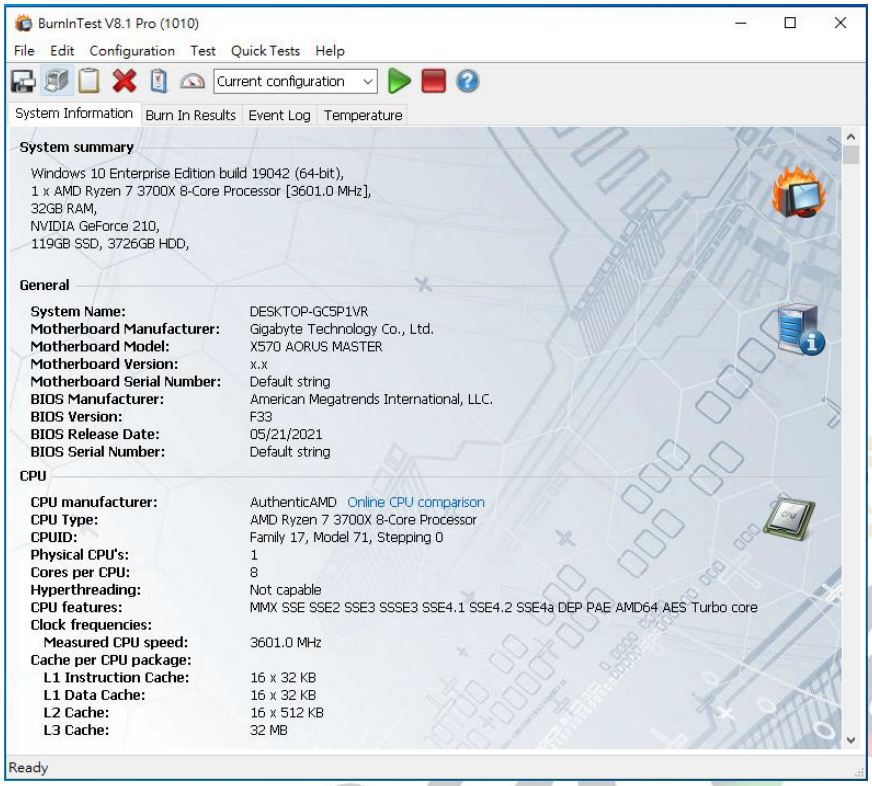
2.8 AnvilBenchmark_V110_B337

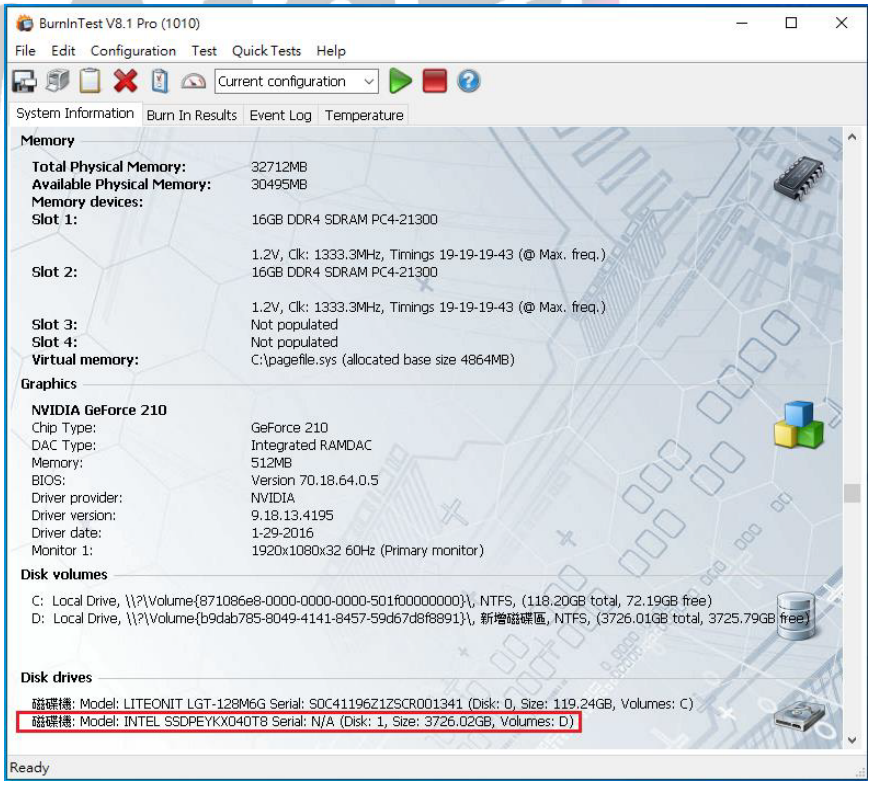
2.8.1 Intel **DC P4511 EDSFF E.1S** / **4TB** performance as below:

3. Burn In Tests and Results

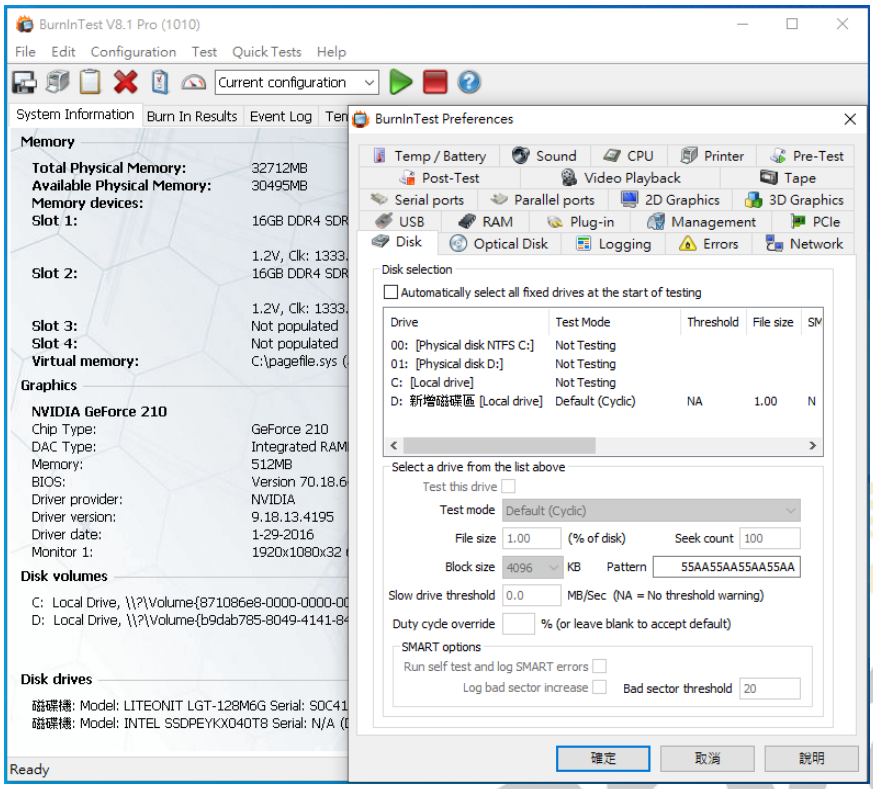
3.1 BurnInTest v8.1 Pro for Intel DC P4511 EDSFF E.1S / 4TB SSD

3.1.1 system information as below:

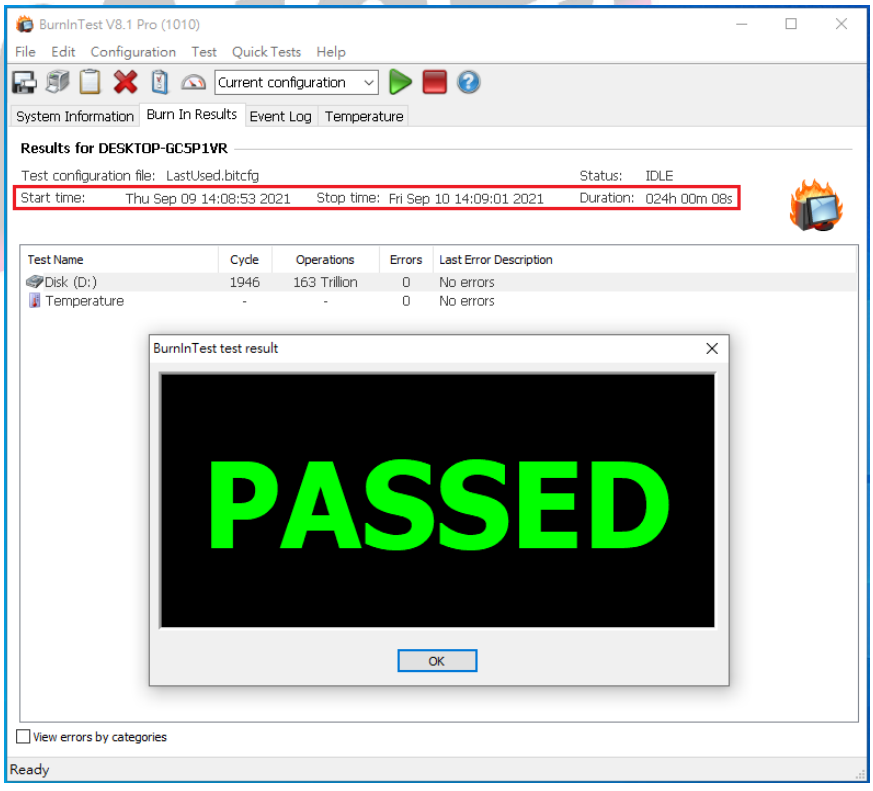




3.1.2 Disk test mode(10 ways cycle test)



3.1.3 24-hour Burn-in test PASSED



4. Summary

4.1 Intel DC P4511 E1.S SSD is PCIe Gen 3 / 4 Lanes Interface, I/O speed, max. to 32Gbps.

4.2 GD1407A adapter I/O performance is based on Intel DC P4511 E1.S SSD .