



Performance & Burn In Test Rev. 1.0

Table of Contents

- 1. Overview**
- 2. Performance Measurement Tools and Results**
 - 2.1 Test Platform
 - 2.2 Test target and Intel U.2 750 NVMe SSD
 - 2.3 Install Hardware
 - 2.4 BIOS & Windows 8.1 OS environment setup
 - 2.5 CrystalDiskMark 6.0.0 x64 performance test
 - 2.6 AS SSD Benchmark 2.0 performance test
 - 2.7 ATTO Disk Benchamrk 3.05 performance test
 - 2.8 AnvilBenchmark_V110_B337 Benchmark performance test
- 3. Burn In Tests and Results**
 - 3.1 BurnInTest v8.1 Pro burn in test
- 4. Summary**

IR4267 Interposer Card

1. Overview

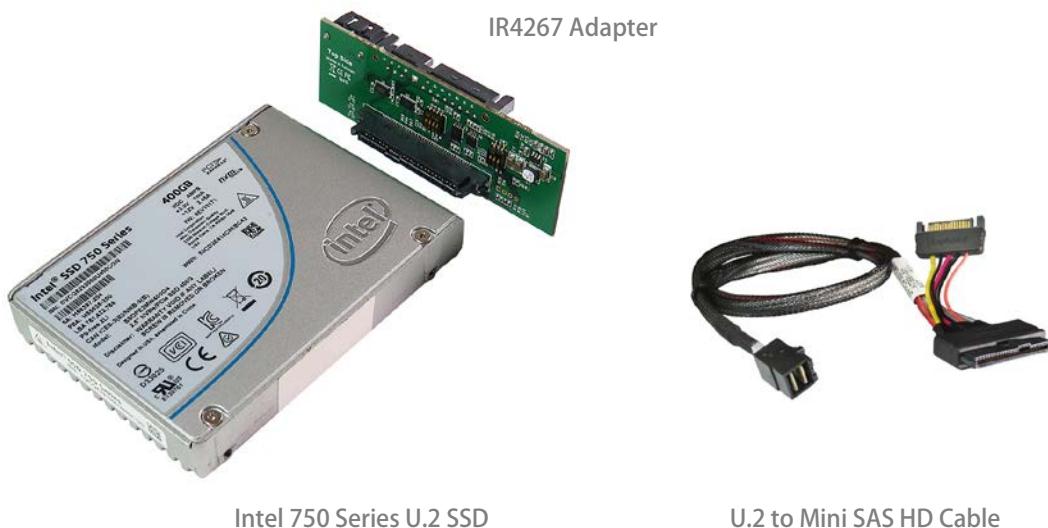
The IR4267 Interposer provides a very simple mean for controlling and switching the PCI Express lanes in the connection to a U.2 SSD. It is possible to isolate & test specific lanes in order to isolate performance issues quickly and easily.

2. Tools and Results of Performance Measurement

2.1 Test Platform

M/B : GIGABYTE **Z170X UD5 TH**
CPU : Intel **i5-6500**, 3.2GHz/ 6M Cache/ LGA1150
Memory : Kingston **KVR21N15D8/8**, **DDR4-2133MHz**, **16G**(8GB DIMM*2)
ATX Power : COOLER MASTER G750M, **750W ATX**, 12V V2.2 Power Supply
Graphic : Z170 Chipsets built-in **HD Graphics 530**
Adapter: PE0404 PCIe to SFF-8643 Mini SAS HD Cable
CABLE: Amphenol U.2(SFF-8639) to SFF-8643 Mini SAS HD Cable
OS : Microsoft **Windows 10 64bit OS**

2.2 Test target: IR4267 Interposer & [Intel 750 U.2\(SFF-8639\) 400GB](#) SSD



2.3 Install Hardware

Insert U.2 SSD into IR4267 Interposer's U.2 female connector. Connects IR4267 converter to PE0404 adapter(PCI-e 4-lane to Mini SAS HD SFF-8643) using U.2 cable, plugs PE0404 into **PCI-e slot of Z170X UD5 TH**.

IR4267 Interposer Card

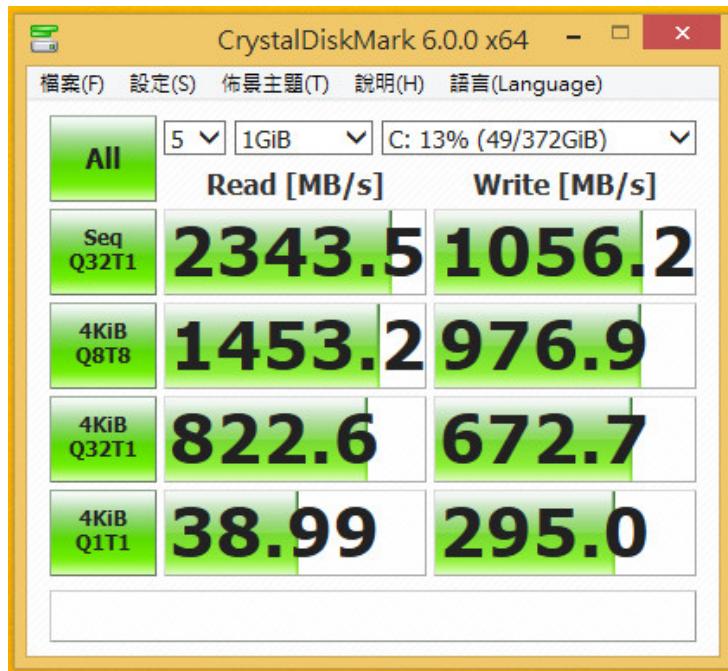
2.4 BIOS & Windows 8.1 OS environment setup

2.4.1 Install Windows 8.1 64bit OS into Intel 750 U.2 400GB SSD

2.5 CrystalDiskMark 6.0.0 x64 performance test

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

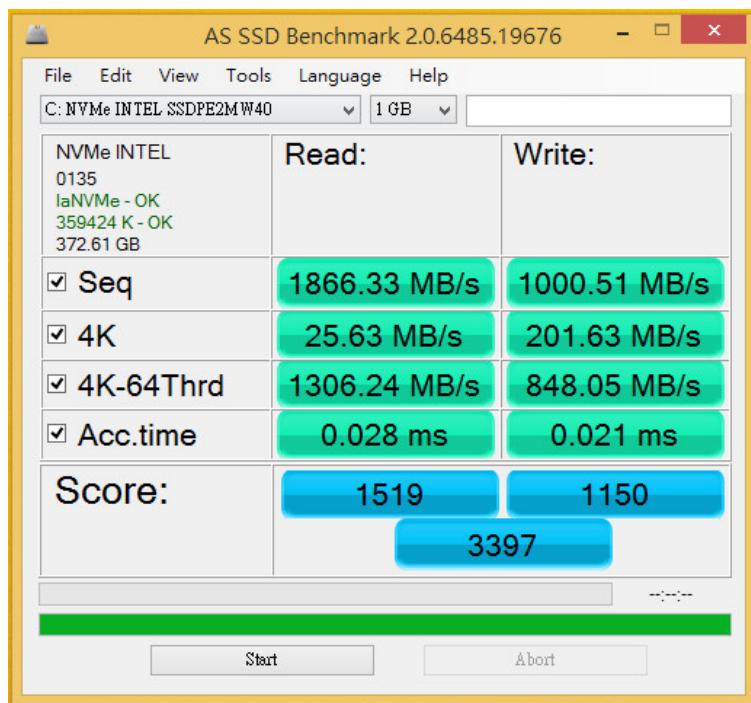
2.5.1 Show Intel 750 U.2 400GB SSD performance as below:



2.6 AS SSD Benchmark 2.0 performance test

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

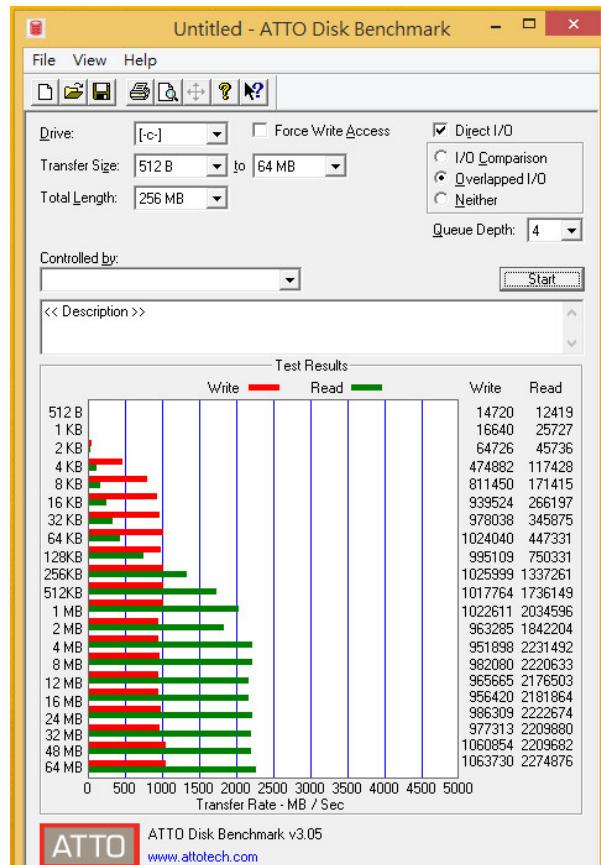
2.6.1 Show Intel 750 U.2(SFF-8639) 400GB SSD performance as below:



IR4267 Interposer Card

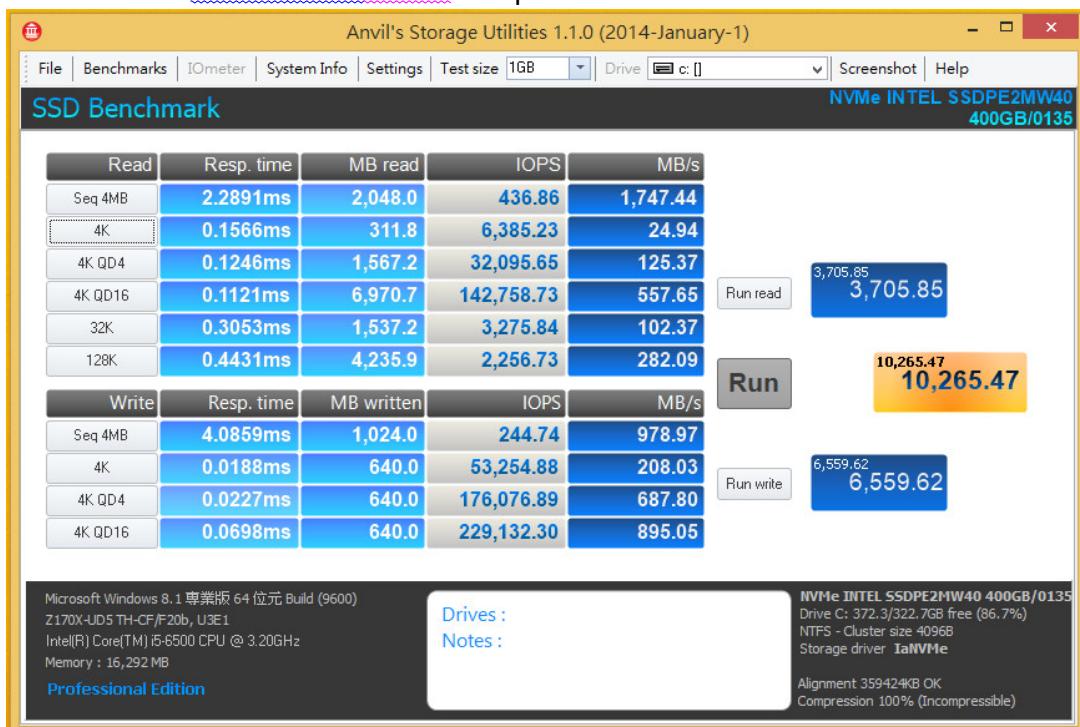
2.7 ATTO Disk Benchamrk 3.05 performance test

2.7.1 Show Intel 750 U.2 400GB SSD performance as below:



2.8 AnvilBenchmark_V110_B337

2.8.1 Show Intel 750 U.2 400GB SSD performance as below:

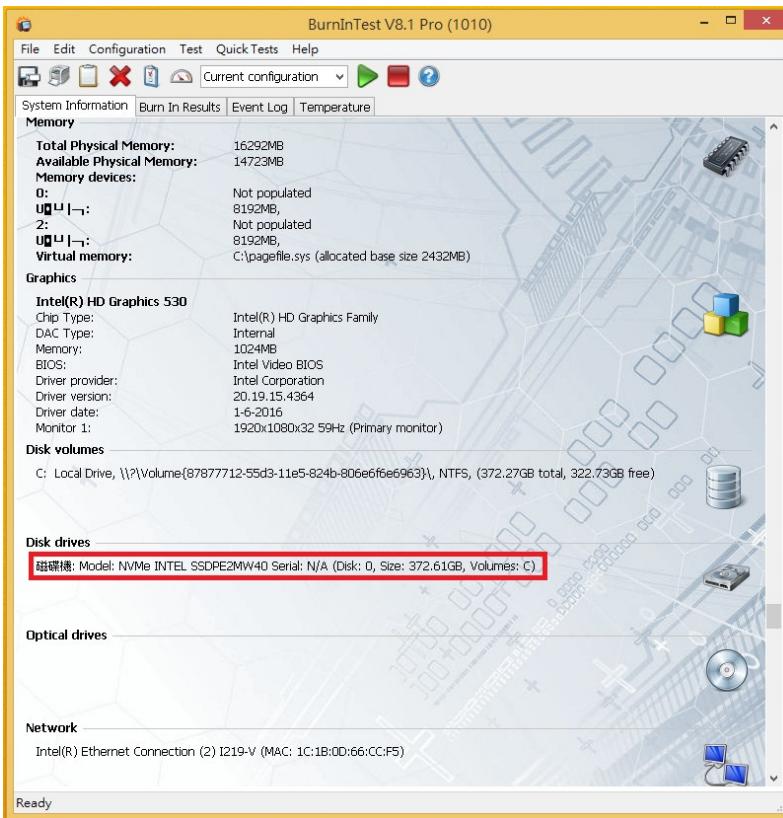
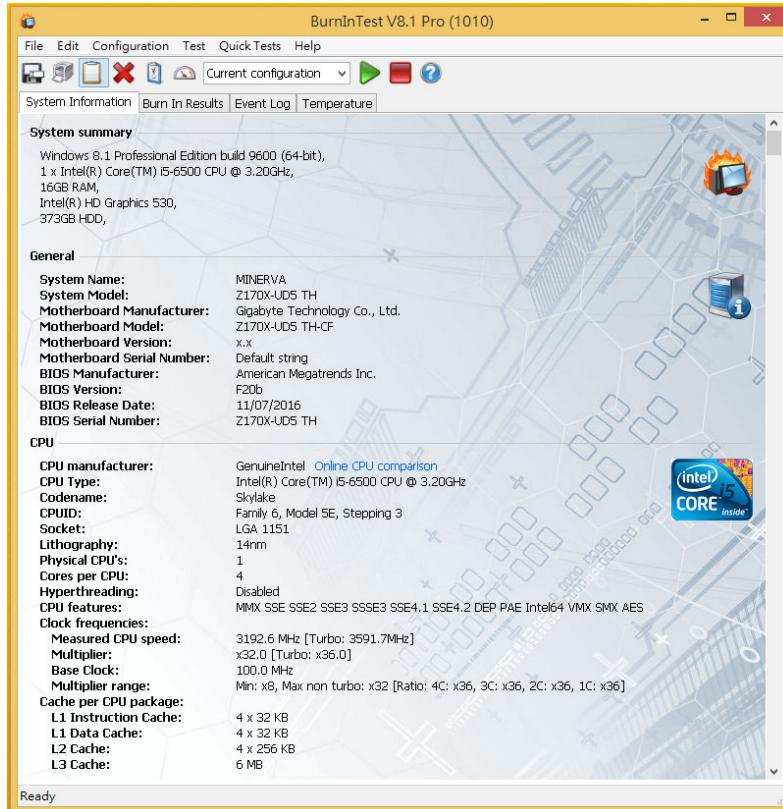


IR4267 Interposer Card

3. Burn In Tests and Results

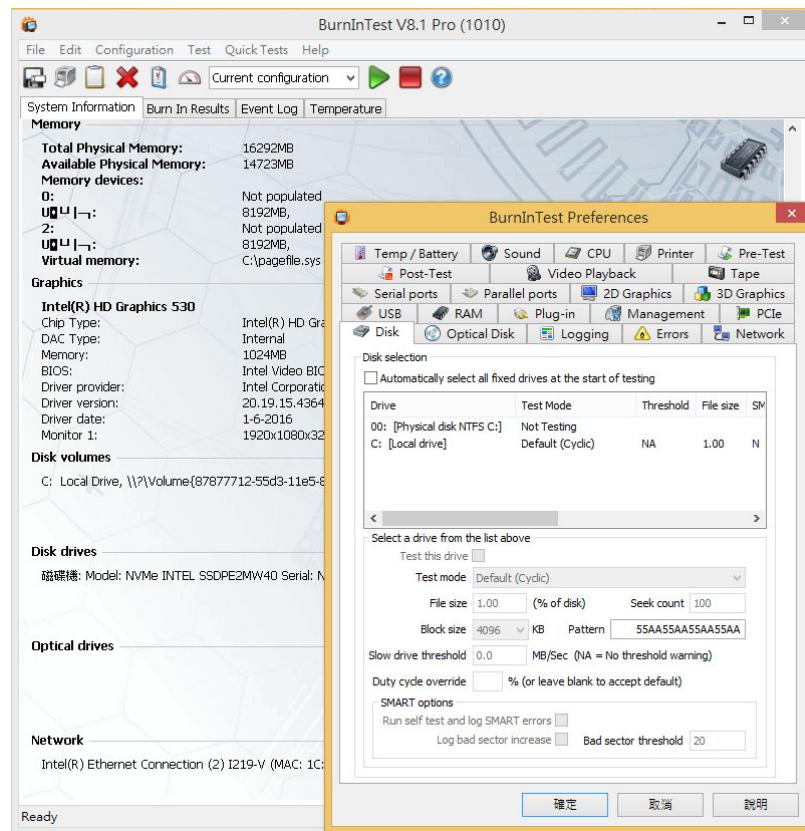
3.1 BurnInTest v8.1 Pro for Intel 750 U.2(SFF-8639) 400GB SSD

3.1.1 system information as below:

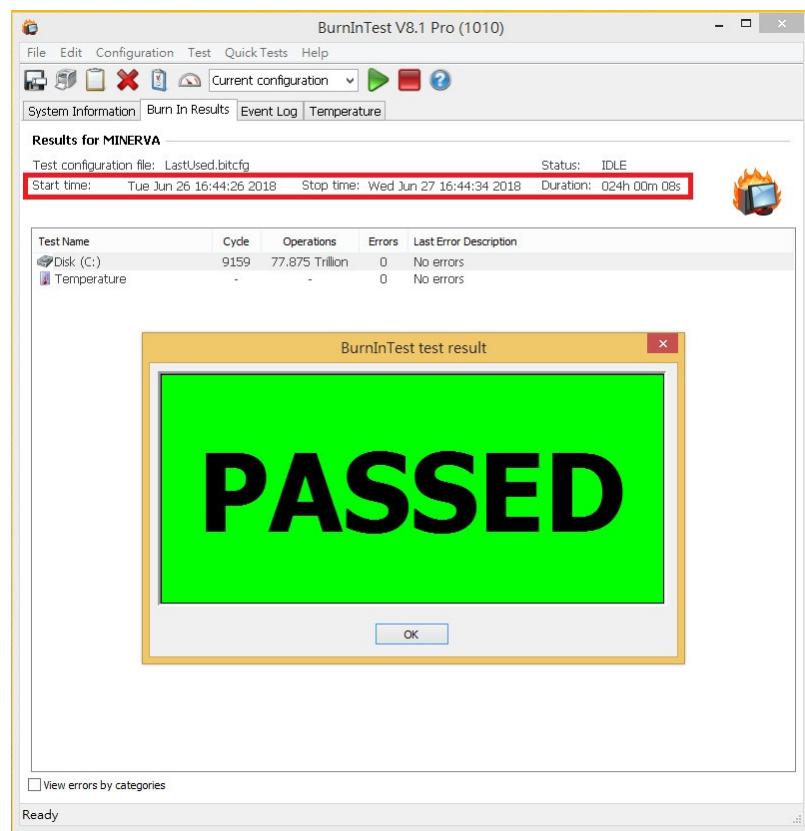


IR4267 Interposer Card

3.1.2 show Disk test mode(10 ways cycle test)



3.1.3 show 24-hour Burn-in test PASSED



IR4267 Interposer Card

4. Summary

- 4.1 U.2 SSD is PCI-e Gen 3 / 4 Lanes Interface, I/O speed, max. to 32Gbps.
- 4.2 IR4267 Interposer I/O performance is based on U.2 NVMe PCI-e Gen 3 / 4 Lanes SSD.