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## Performance & Burn In Test Rev. 1.0

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# PE0410 Converter Card

## 1. Overview

PE0410 adapter, providing SFF-8639 connector can be U.2 (PCI-e I/F NVMe) SSD converted into PCI-e Gen 3 / 4 Lanes interface with SATA power connector.

## 2. Tools and Results of Performance Measurement

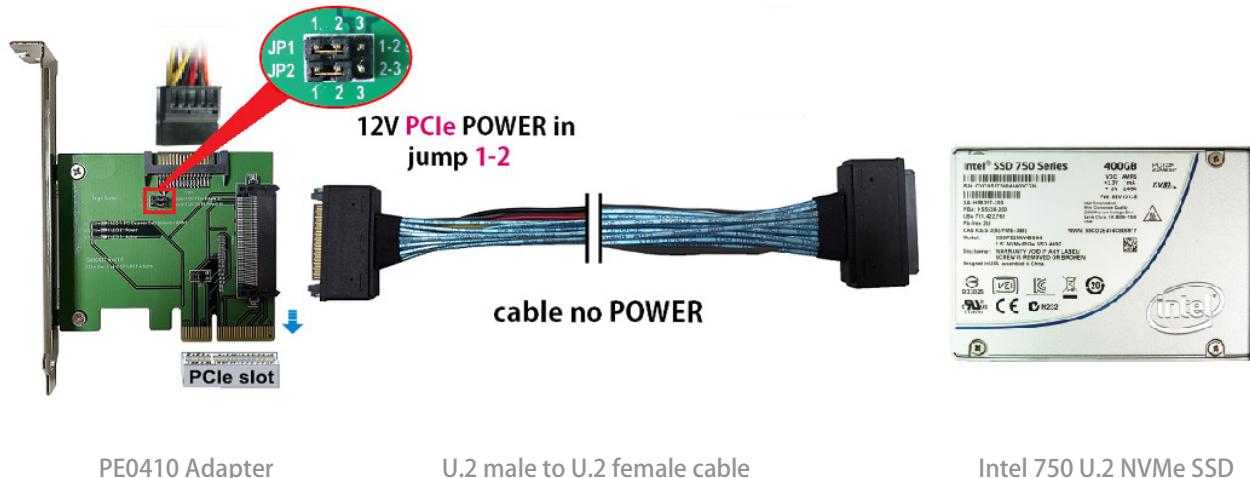
### 2.1 Test Platform

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

### 2.2 Test target: PE0410 adapter & **INTEL 750 U.2 NVMe 400GB SSD**

### 2.3 Install Hardware

Insert PE0410 adapter into **PCI-e slot of Z170X UD5 TH**, and then uses cable to connect INTEL 750 U.2 NVMe 400GB.



PE0410 Adapter

U.2 male to U.2 female cable

Intel 750 U.2 NVMe SSD

### 2.4 BIOS & Windows 10 OS environment setup

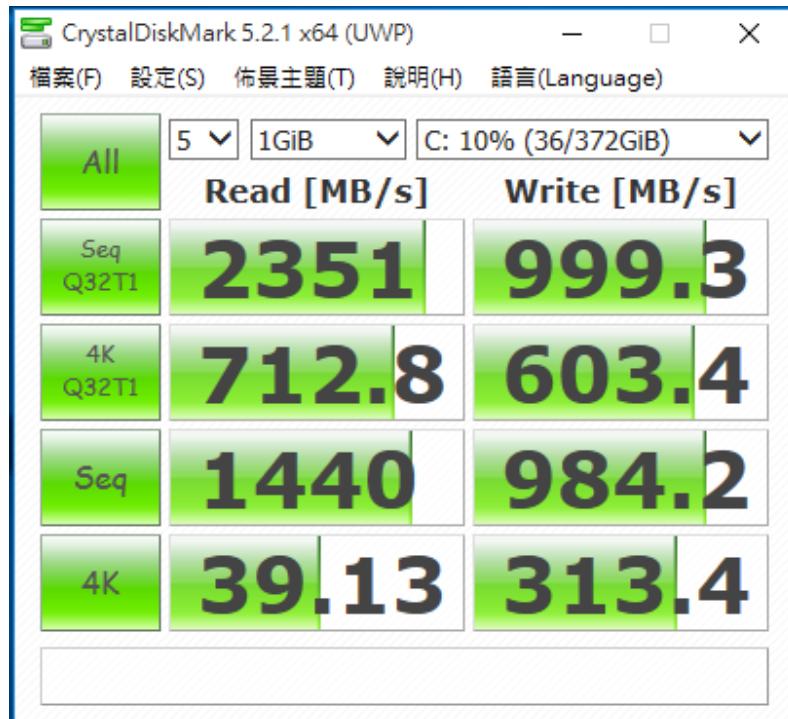
#### 2.4.1 Install Windows 10 64bit OS into INTEL 750 U.2 NVMe 400GB

# PE0410 Converter Card

## 2.5 CrystalDiskMark 5.2.1 x64 performance test

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

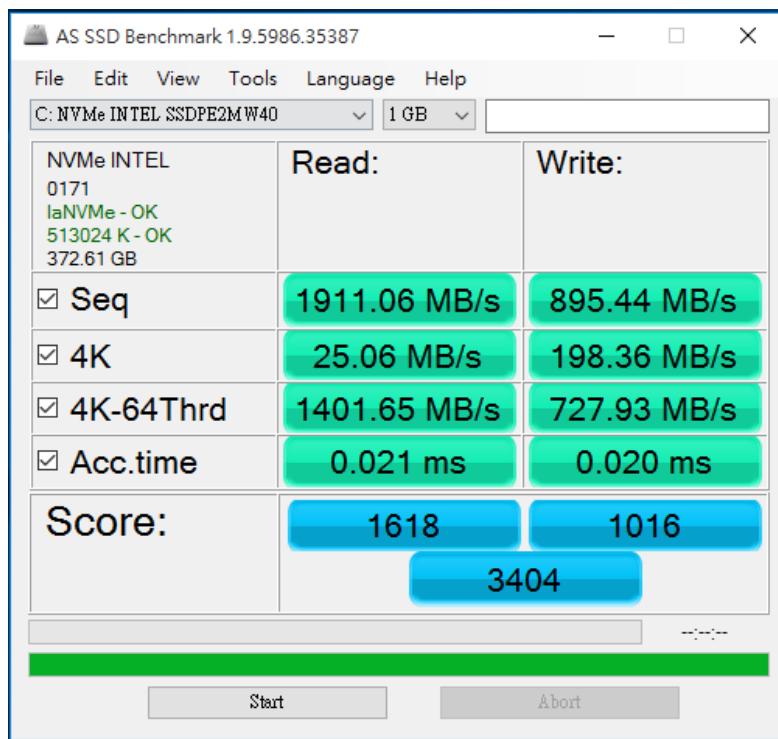
2.5.1 Show INTEL 750 U.2 NVMe 400GB performance as below:



## 2.6 AS SSD Benchmark 1.9 performance test

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

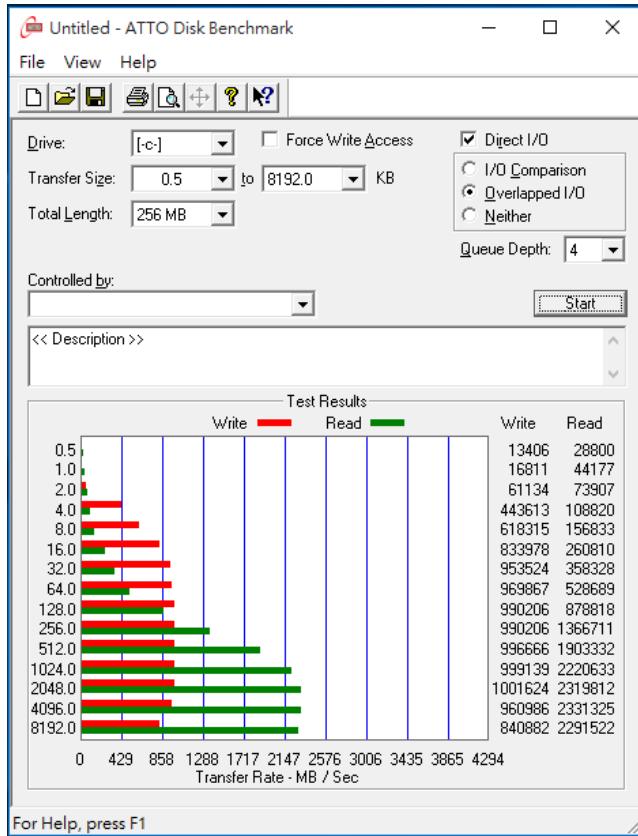
2.6.1 Show INTEL 750 U.2 NVMe 400GB performance as below:



# PE0410 Converter Card

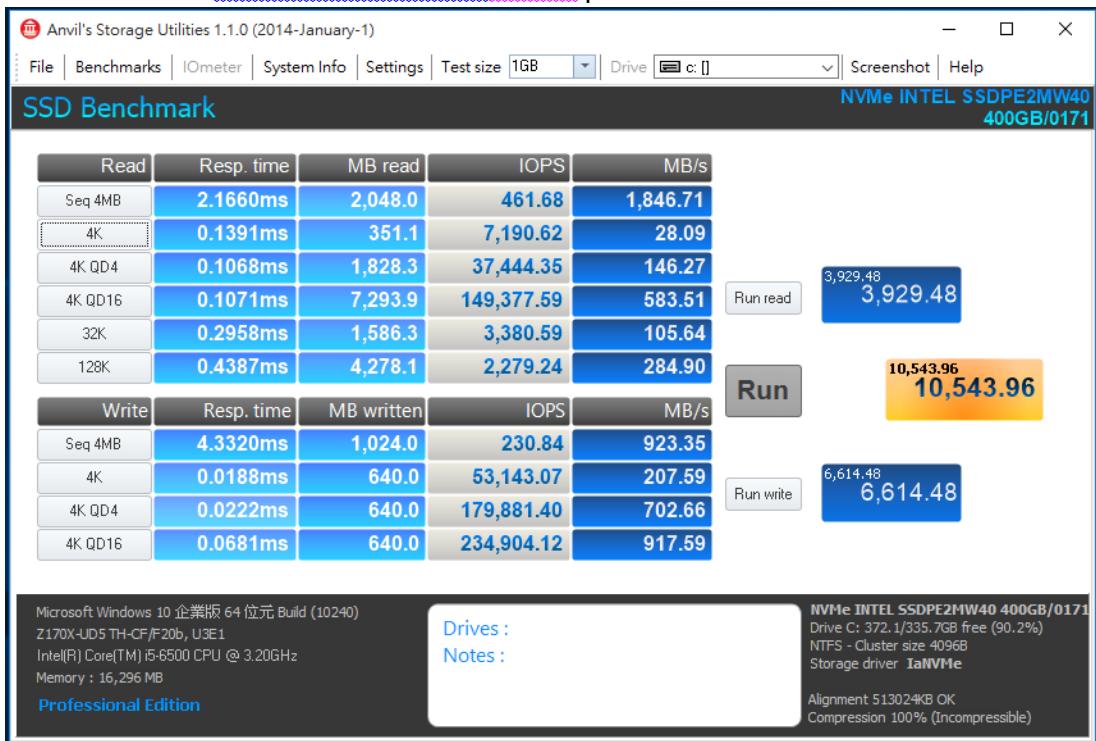
## 2.7 ATTO Disk Benchamrk 2.47 performance test

2.7.1 Show INTEL 750 U.2 NVMe 400GB performance as below:



## 2.8 AnvilBenchmark\_V110\_B337

2.8.1 Show INTEL 750 U.2 NVMe 400GB performance as below:

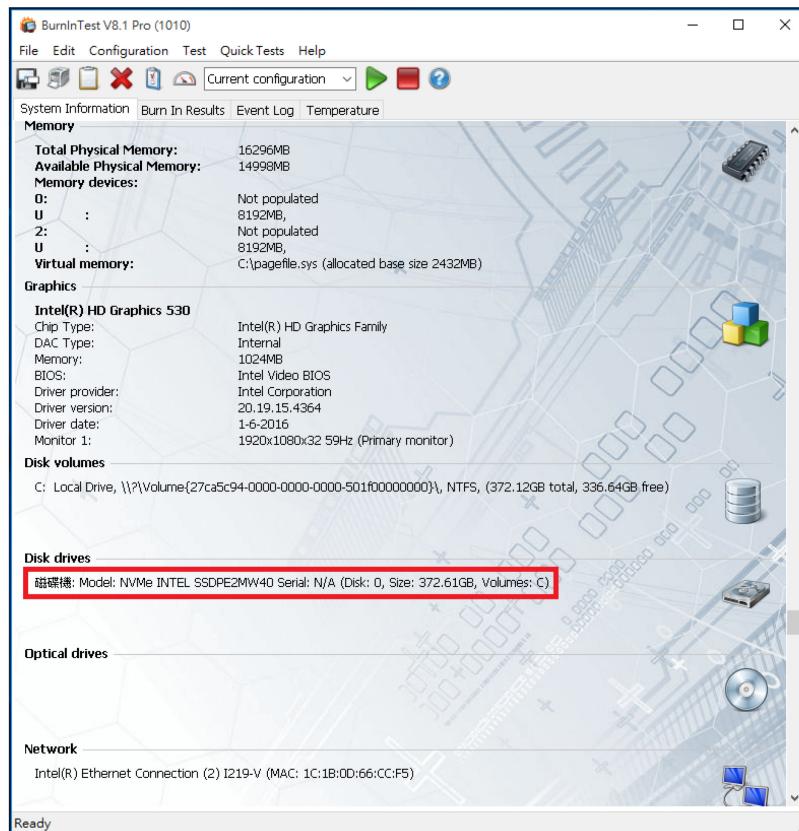
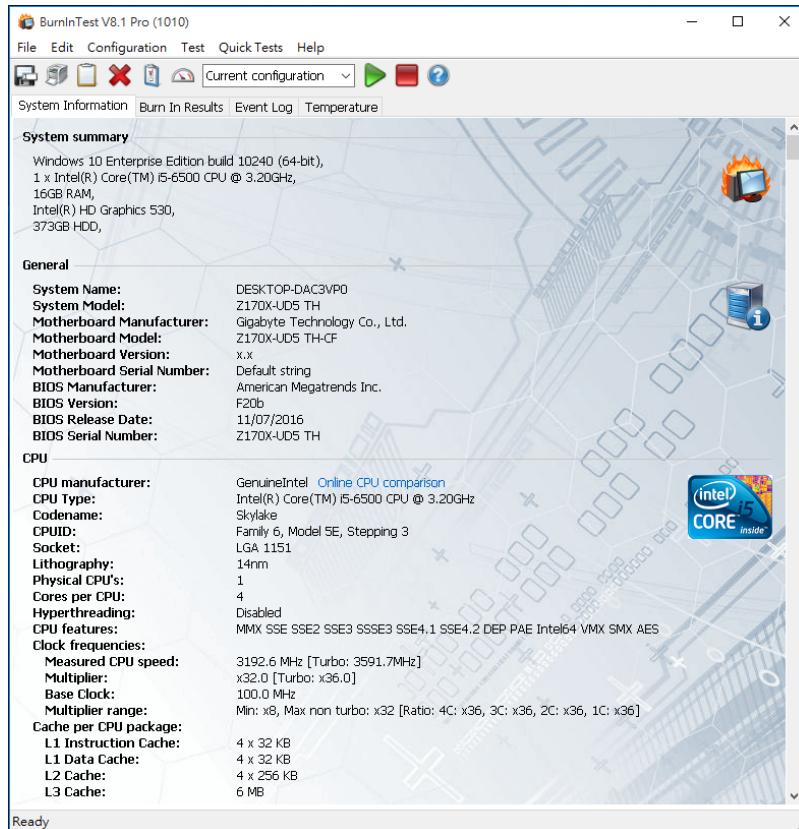


# PE0410 Converter Card

## 3. Burn In Tests and Results

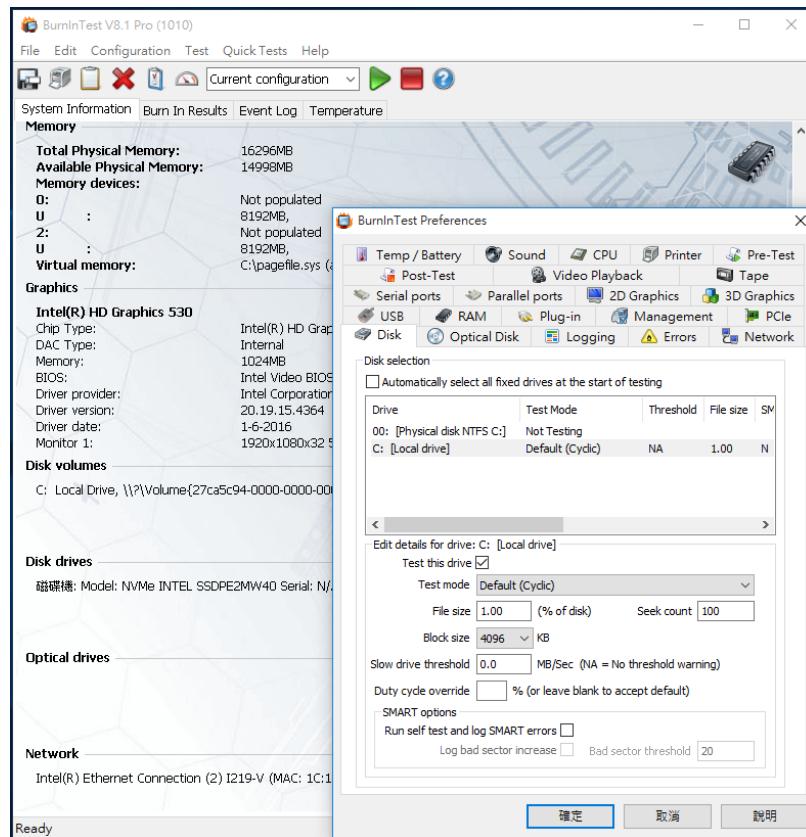
### 3.1 BurnInTest v8.1 Pro for INTEL 750 U.2 NVMe 400GB SSD

#### 3.1.1 system information as below:

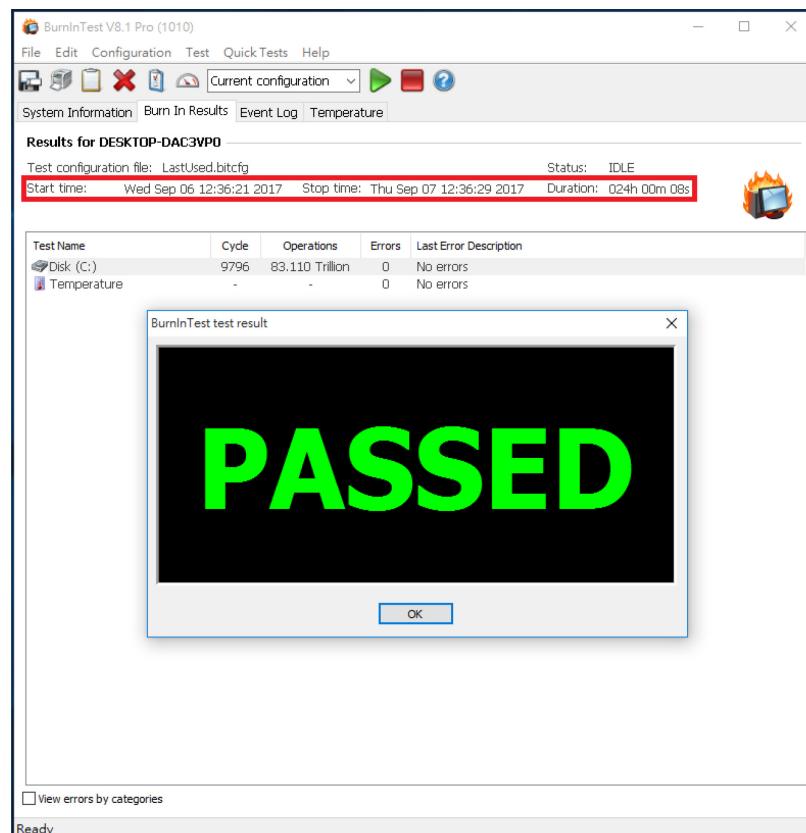


# PE0410 Converter Card

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



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



# **PE0410 Converter Card**

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## **4. Summary**

- 4.1 U.2 SSD is PCI-e Gen 3 / 4 Lanes Interface, I/O speed, max. to 4GB.
- 4.2 PE0410 adapter I/O performance is based on U.2 NVMe PCI-e Gen 3 / 4 Lanes SSD.