



# PU418G Converter Card

---

## 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 M.2 NVMe SSD

    2.3 Install Hardware

    2.4 BIOS & Windows 10 OS environment setup

    2.5 CrystalDiskMark 6.0.0 x64 performance test

    2.6 AS SSD Benchmark 1.9 performance test

    2.7 ATTO Disk Benchamrk 3.0.5 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

# PU418G Converter Card

## 1. Overview

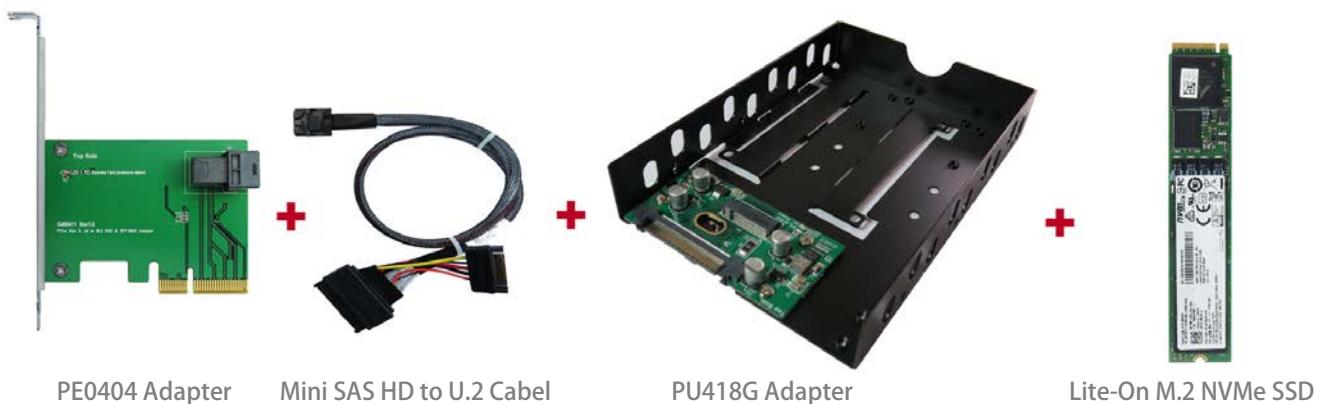
PU418G adapter, providing M.2 M-key connector can be M.2 (PCI-e I/F NVMe) SSD converted into U.2(SFF-8639), PCI-e Gen 3 / 4 Lanes interface.

## 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 SFF-8643 Mini SAS HD to U.2(SFF-8639) Cable  
OS : Microsoft **Windows 10 64bit OS**

### 2.2 Test target: PU418G adapter & M.2 **Lite-On EP2-KB960 960GB NVMe SSD**



### 2.3 Install Hardware

Insert M.2 SSD into PU418G converter's M.2 M-key connector, and then connect PU418G converter to PE0404 adapter(PCI-e 4-lane to SFF-8643 Mini SAS HD), using SFF-8643 to U.2(SFF-8639) cable. PE0404 plugs into **PCI-e slot of Z170X UD5 TH**.

### 2.4 BIOS & Windows 10 OS environment setup

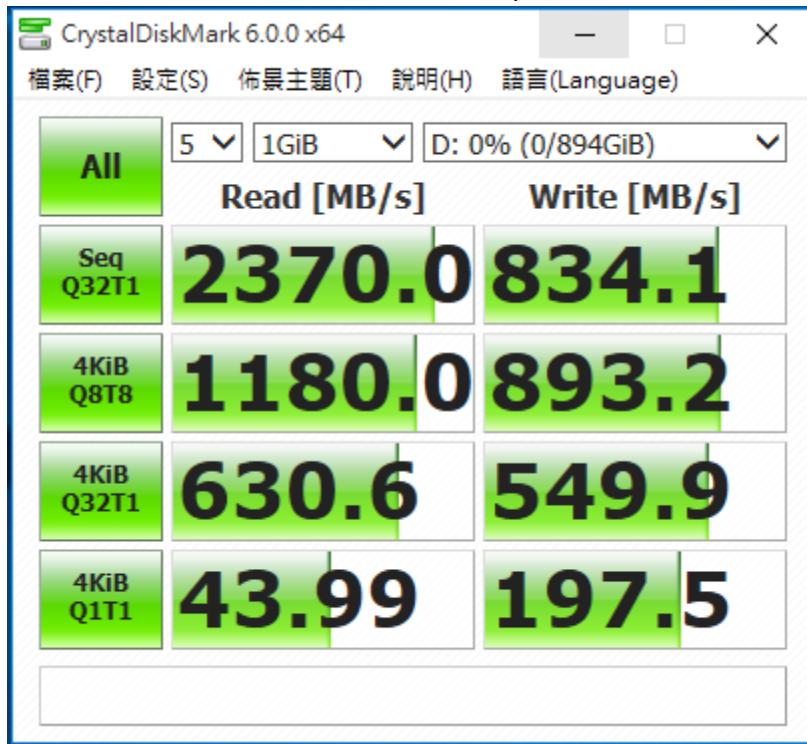
2.4.1 PU418G+ M.2/**960GB** NVMe SSD formatted NTFS, **not be intalled program**.

# PU418G Converter Card

## 2.5 CrystalDiskMark 6.0.0 x64 performance test

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

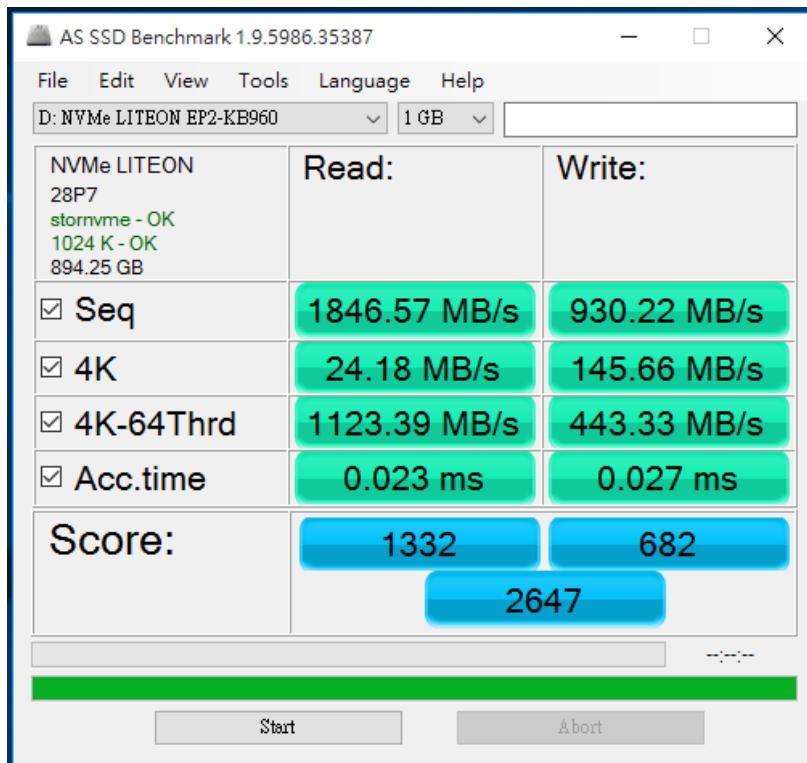
2.5.1 Show Lite-On M.2 EP2-KB960 960GB performance as below:



## 2.6 AS SSD Benchmark 1.9 performance test

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

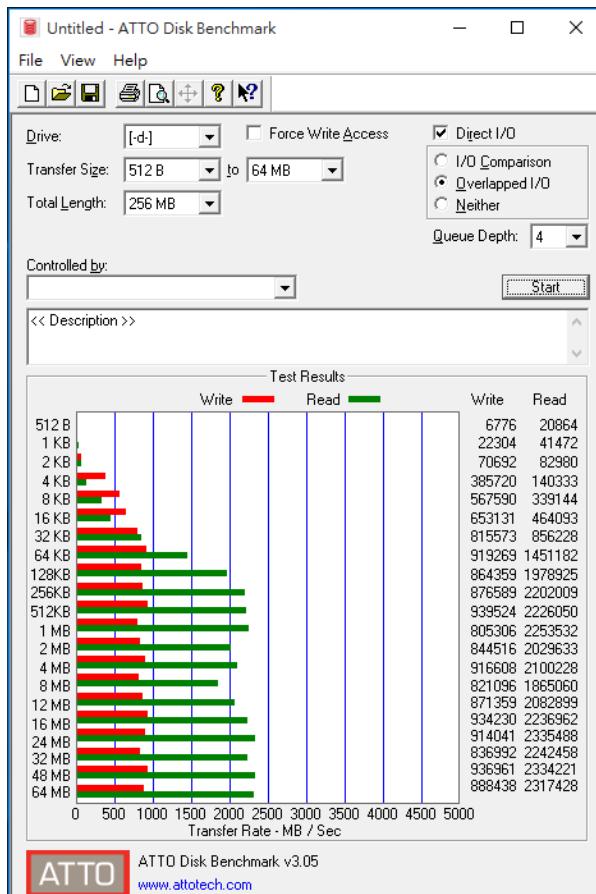
2.6.1 Show Lite-On M.2 EP2-KB960 960GB performance as below:



# PU418G Converter Card

## 2.7 ATTO Disk Benchamrk 3.0.5 performance test

### 2.7.1 Show Lite-On M.2 EP2-KB960 960GB performance as below:



## 2.8 AnvilBenchmark\_V110\_B337

### 2.8.1 Show Lite-On M.2 EP2-KB960 960GB performance as below:

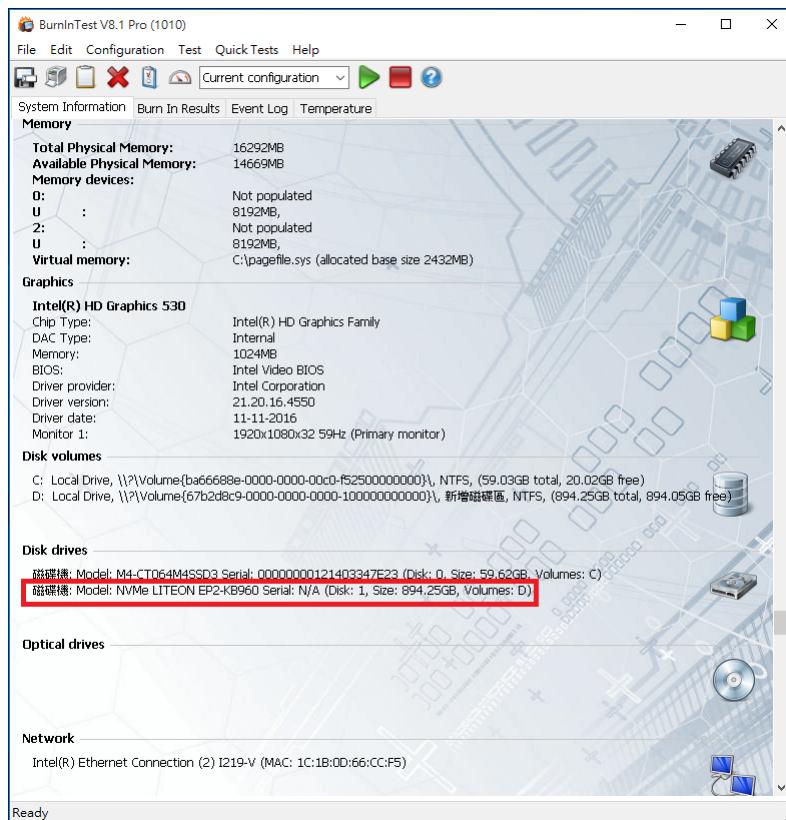
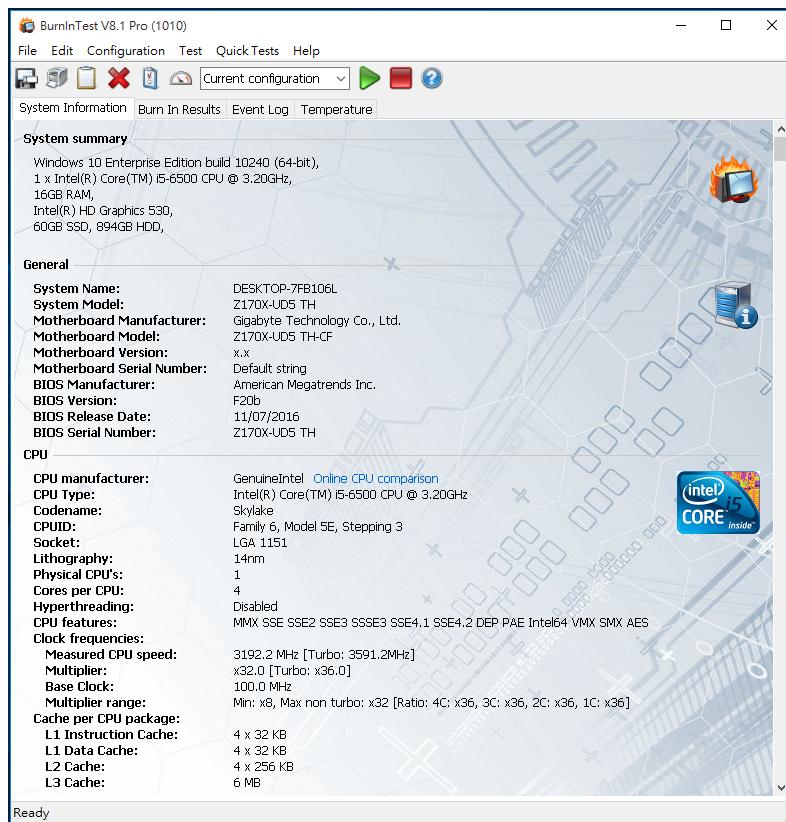


# PU418G Converter Card

## 3. Burn In Tests and Results

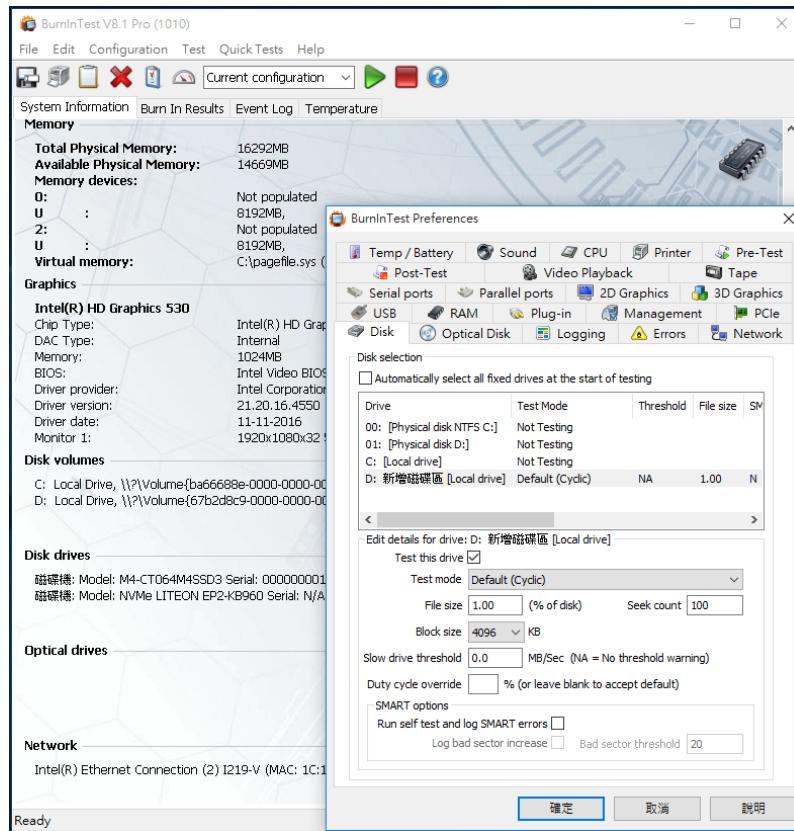
### 3.1 BurnInTest v8.1 Pro for Lite-On M.2 EP2-KB960 960GB

#### 3.1.1 system information as below:

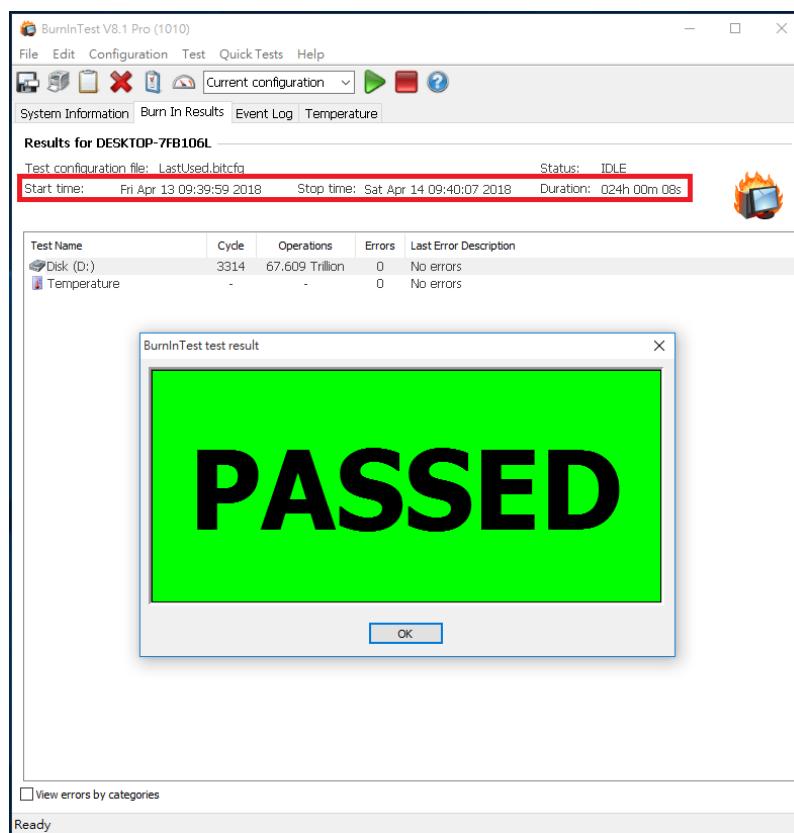


# PU418G Converter Card

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



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



# **PU418G Converter Card**

---

## **4. Summary**

- 4.1 M.2 NVMe SSD is PCI-e Gen 3 / 4 Lanes Interface, I/O speed, max. to 4GB.
- 4.2 PU418G adapter I/O performance is based on M.2 NVMe SSD.