# MINERVA

## PC408A Converter Card

# Performance & Burn In Test Rev. 1. 0

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# PC408A Converter Card

## 1. Overview

PC408A adapter, providing PCIe Gen 3 4-Lnae slot can be PCIe SSD converted into SFF-8654 Slimline SAS.

## 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 to SFF-8654 Slimline SAS Cable** |
| OS : | Microsoft **Windows 8.1 64bit OS** |

### 2.2 Test target: PC408A adapter & Intel 750 Series PCIe 400GB

SFF-8654 to SFF-8643 Cable

PC408A Adapter


Intel 750 Series SSD

### 2.3 Install Hardware

Inserts Intel PCIe SSD into PC408A converter's PCIe Gen 3 x4 slot, and then using SFF-8643 to SFF-8654 cable to connect PC408A converter to PE0404 adapter of GIGABYTE **Z170X UD5 TH.**

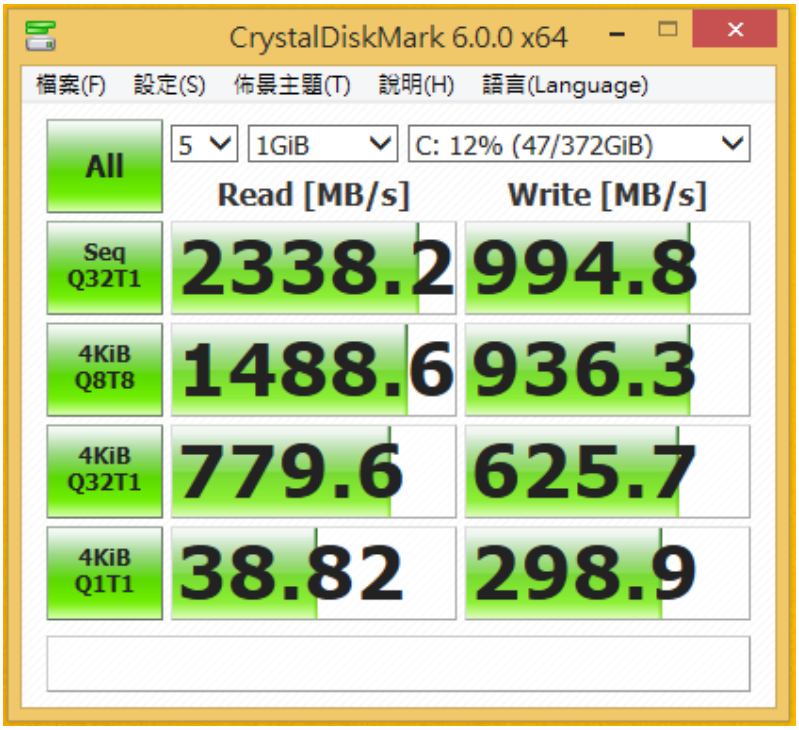
### 2.4 BIOS & Windows 8.1 OS environment setup

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

2.5 CrystalDiskMark 6.0 x64 performance test

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

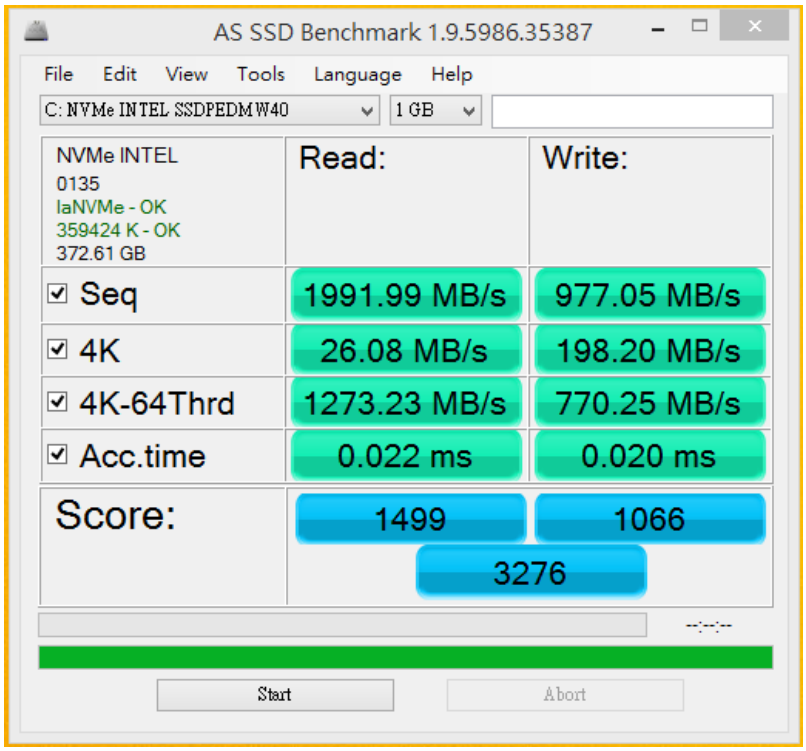
2.5.1 Shows **INTEL 750 SSDPEDMW400G4R5 Add-in Card** performance as below:




2.6 AS SSD Benchmark 1.9 performance test

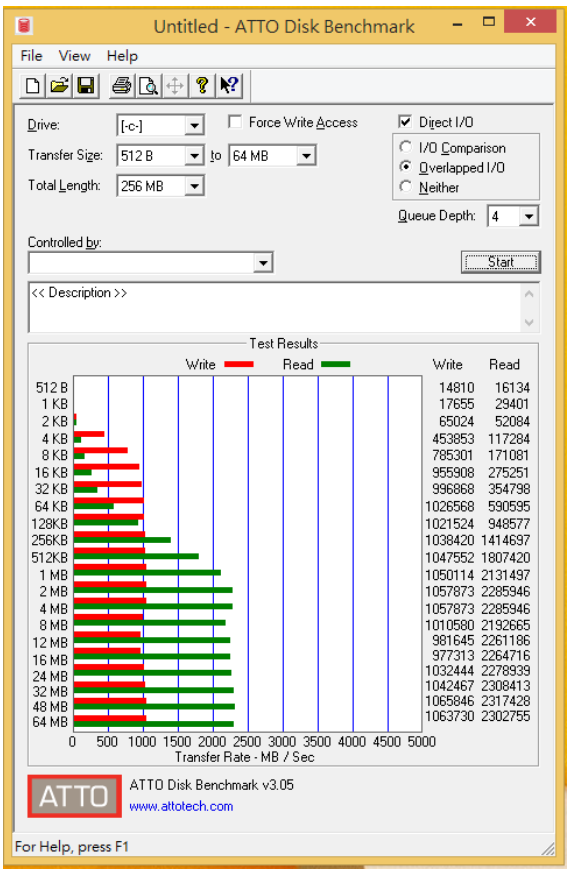
※Benchmark (Read & Write by MB/s, default block size = 16MB)

2.6.1 Shows **INTEL 750 SSDPEDMW400G4R5 Add-in Card** performance as below:



2.7 ATTO Disk Benchamrk 3.05 performance test

2.7.1 Shows INTEL 750 SSDPEDMW400G4R5 Add-in Card performance as below:



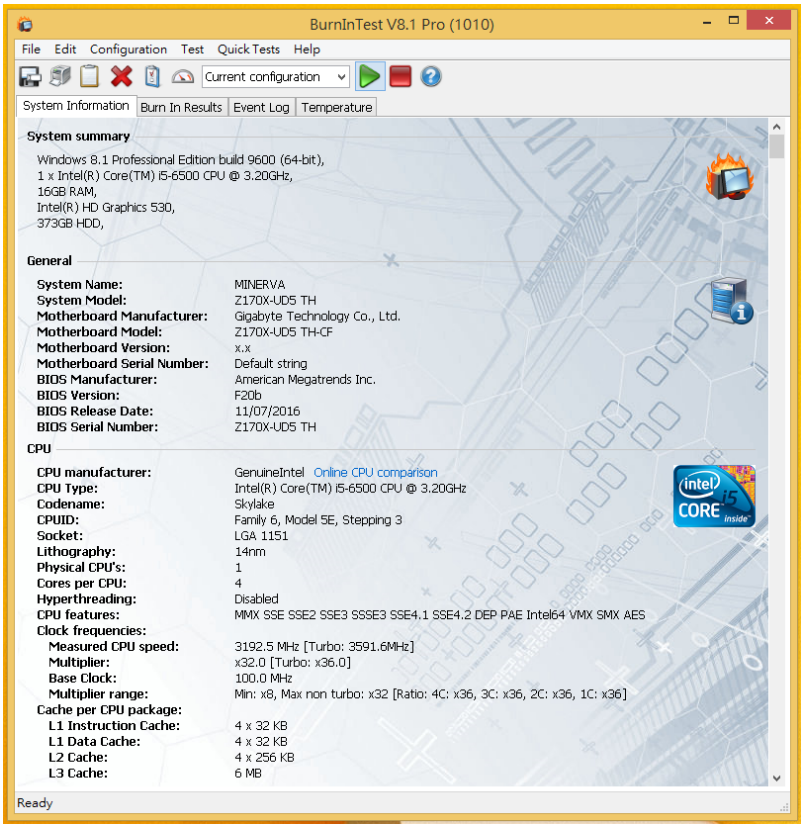

2.8 AnvilBenchmark_V110_B337

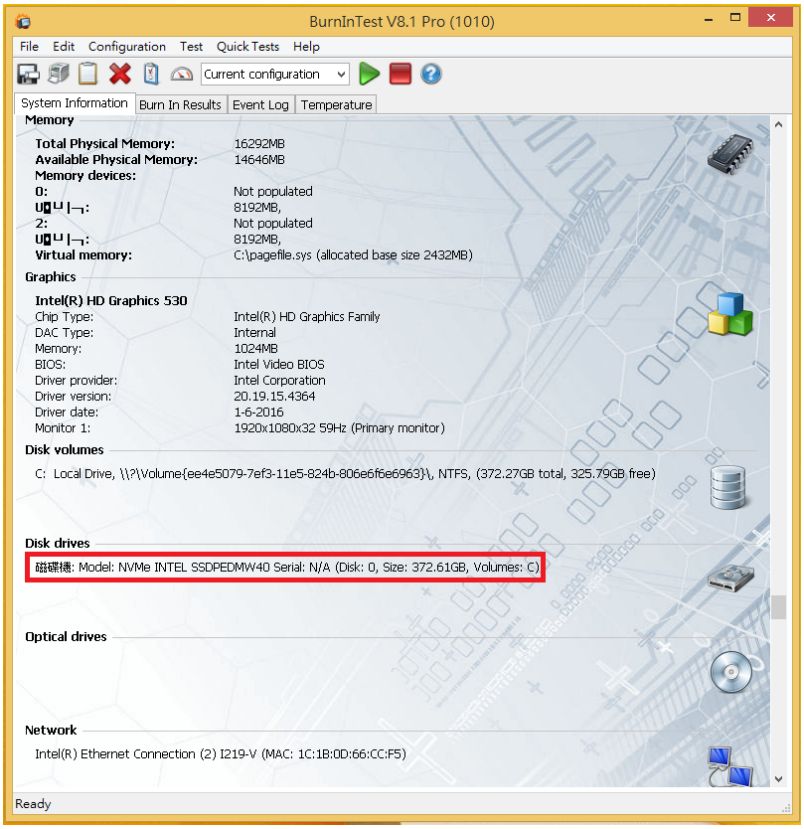
2.8.1 Shows INTEL 750 SSDPEDMW400G4R5 Add-in Card performance as below:

## 3. Burn In Tests and Results

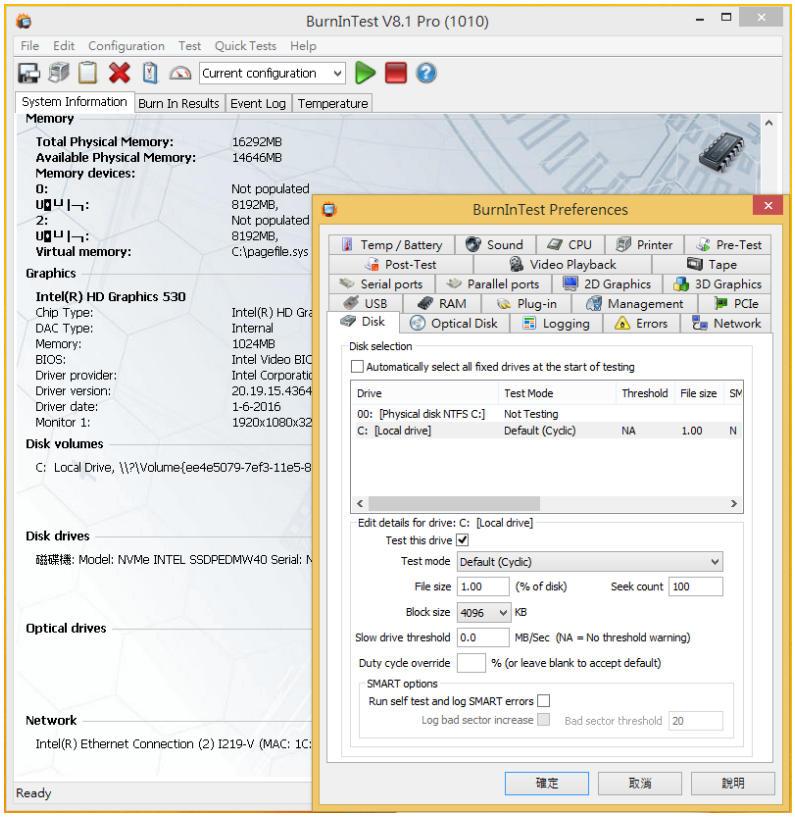
### 3.1 BurnInTest v8.1 Pro for INTEL 750 SSDPEDMW400G4R5 Add-in Card

#### 3.1.1 system information as below:

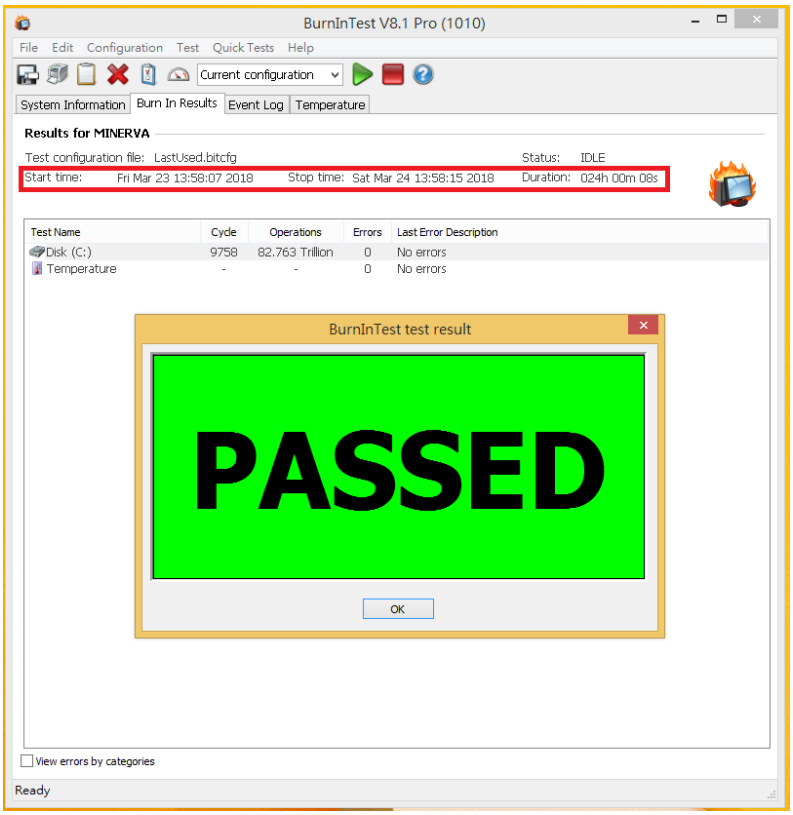


### 3.1.2 show Disk test mode( 10 ways cycle test)




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



## 4. Summary

4.1 Intel PCI-e SSD is PCI-e Gen 3 / 4 Lanes Interface, I/O speed, max. to 32Gbps.

4.2 PC408A adapter I/O performance is based on Intel PCI-e NVMe 400GB SSD.