



MINERVA

PU3402A 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 Used Intel PCIe x4 SSD

2.3 Install Hardware

2.4 BIOS & Windows 8.1 OS environment setup

2.5 CrystalDiskMark 5.0.2 x64 performance test

2.6 AS SSD Benchmark 1.8 performance test

2.7 ATTO Disk Benchamrk 2.47 performance test

2.8 AnvilBenchmark_V110_B337 Benchmark performance test

3. Burn In Tests and Results

3.1 BurnInTest v8.0 Pro burn in test

4. Summary

PU3402A Converter Card

1. Overview

PU3402A adapter, providing PCIe Gen 3 x4 slot can be PCI-e 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 : ASRock **Z97 Extreme 6**
CPU : Intel **i5-4426**, 3.2GHz/ 6M Cache/ LGA1150
Memory : Kingston **KVR16N11S8/4**, DDR3-1600MHz, 8G(4GB DIMM*2)
ATX Power : FSP RAIDER 550, **550W ATX**, 12V V2.2 Power Supply
Graphic : Z97 Chipsets built-in **HD Graphics 4600**
PCIe adapter: PCIe Gen 3/4 Lanes to SFF-8639 adapter
Cable: Amphenol SFF-8643 to SFF-8639 cable
OS : Microsoft **Windows 8.1 64bit OS**

2.2 Test target: PU3402A adapter & **INTEL 750 SSDPEDMW400G4R5 Add-in Card**



2.3 Install Hardware

Insert Intel PCIe SSD into PU3402A converter's PCIe Gen 3 x4 slot, and then Use SFF-8643 to SFF-8639 cable to connect PU3402A converter to **PCI-e to SFF-8643 adapter of Z97 Extreme 6 M/B.**

2.4 BIOS & Windows 8.1 OS environment setup

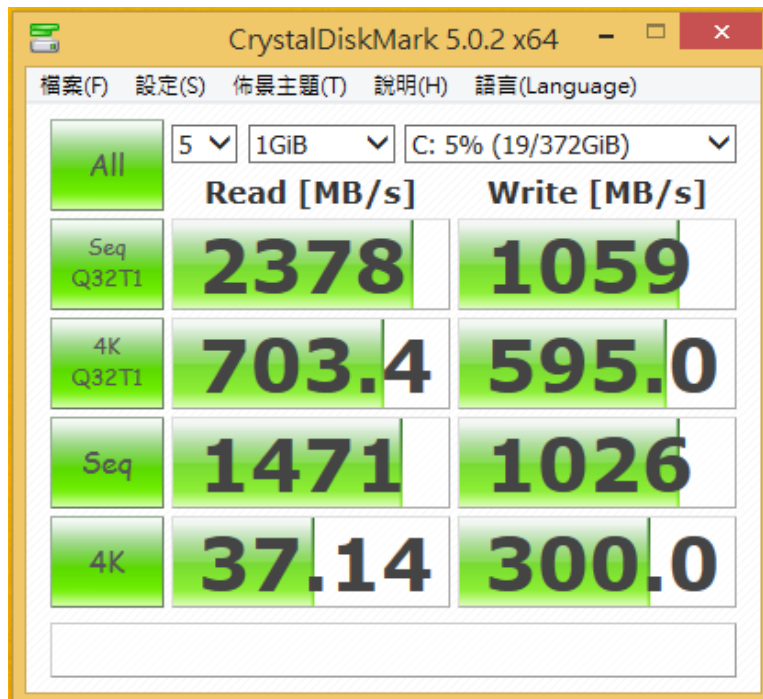
2.4.1 Install Windows 8.1.

PU3402A Converter Card

2.5 CrystalDiskMark 5.0.2 x64 performance test

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

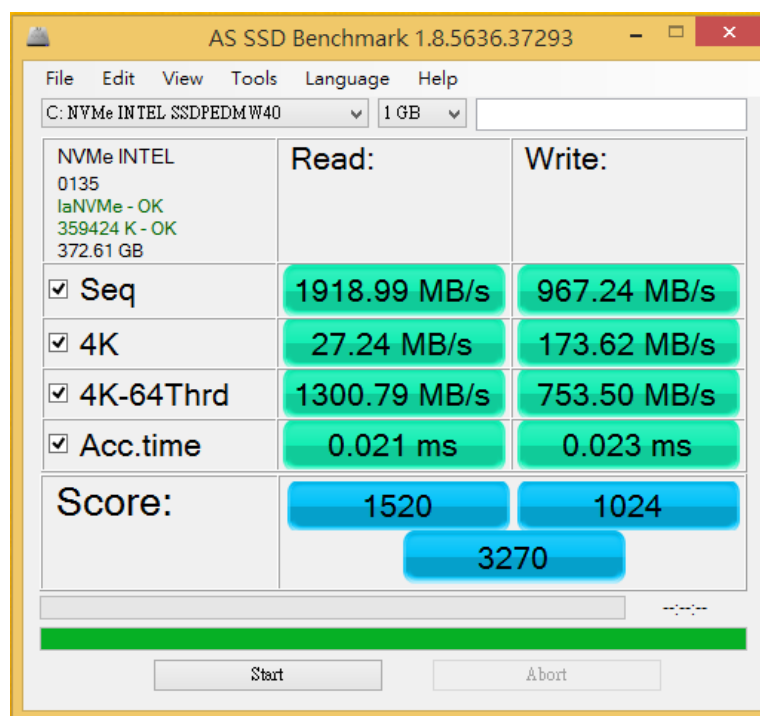
2.5.1 Used SSD([INTEL 750 SSDPEDMW400G4R5 Add-in Card](#))performance as below:



2.6 AS SSD Benchmark 1.8 performance test

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

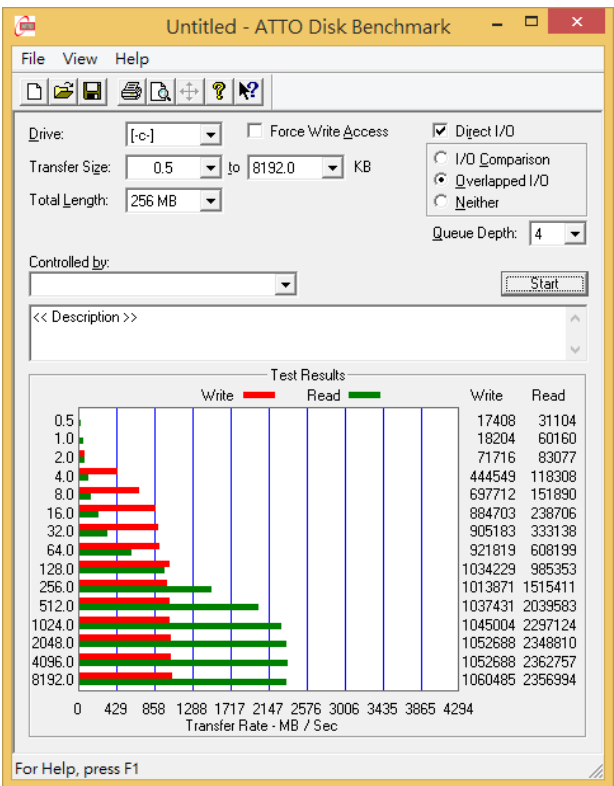
2.6.1 Used SSD([INTEL 750 SSDPEDMW400G4R5 Add-in Card](#))performance as below:



PU3402A Converter Card

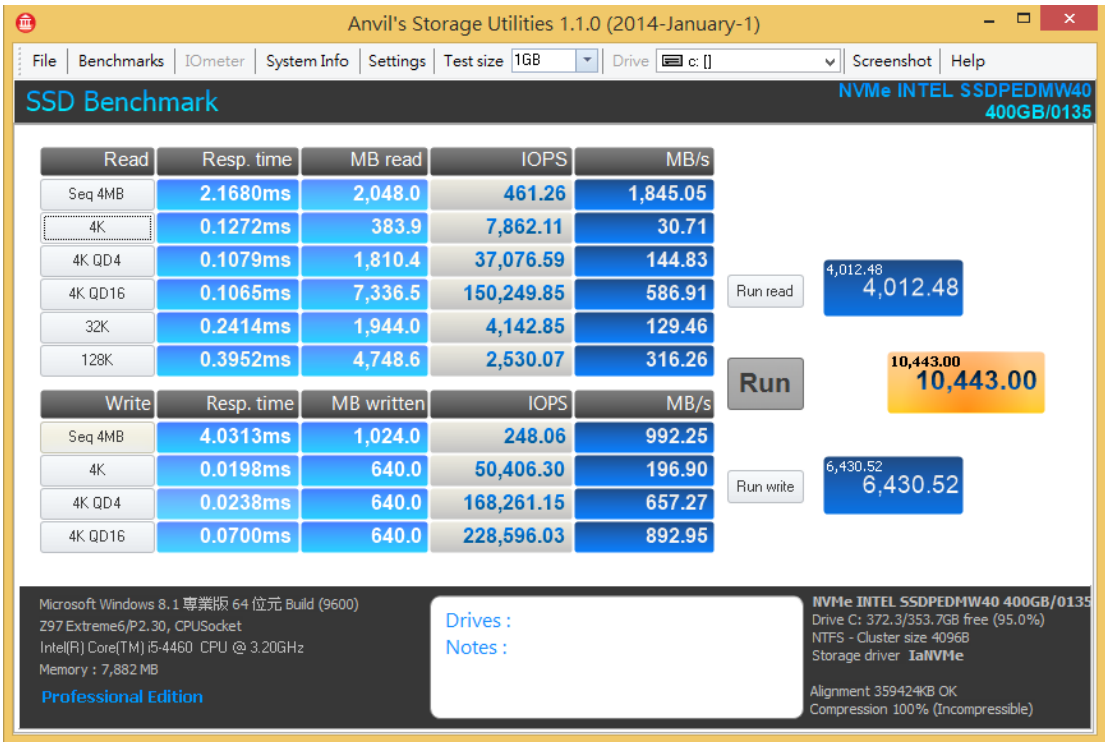
2.7 ATTO Disk Benchamrk 2.47 performance test

2.7.1 Used SSD([INTEL 750 SSDPEDMW400G4R5 Add-in Card](#))performance as below:



2.8 AnvilBenchmark_V110_B337

2.8.1 Used SSD([INTEL 750 SSDPEDMW400G4R5 Add-in Card](#))performance as below:

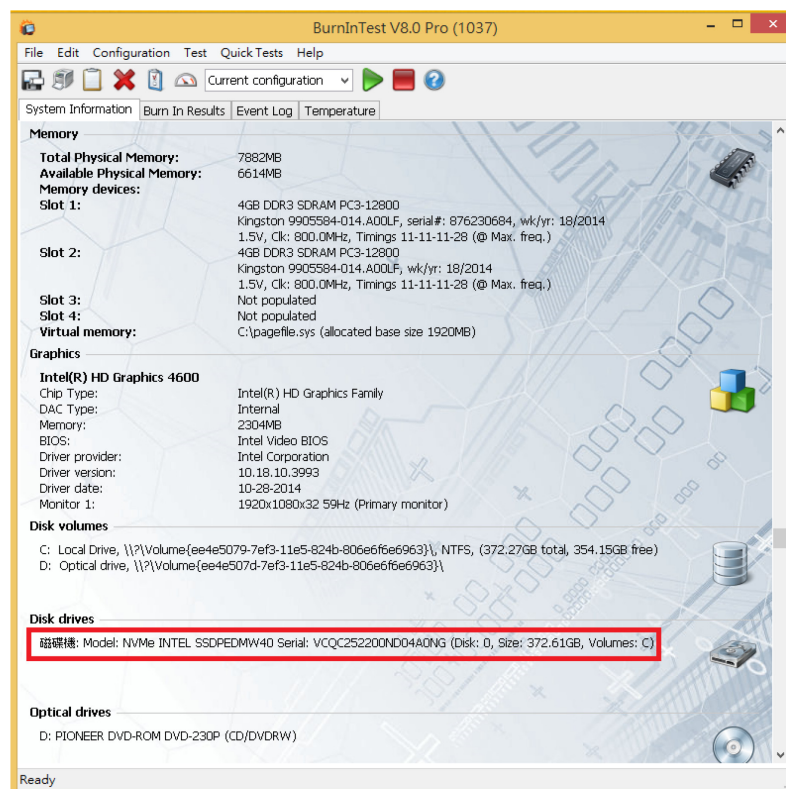
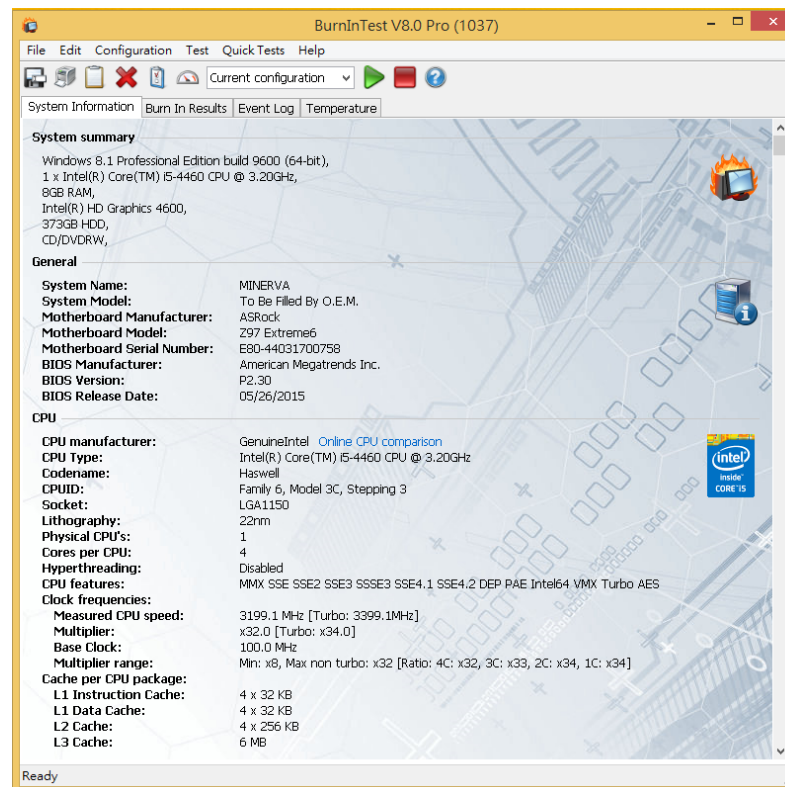


PU3402A Converter Card

3. Burn In Tests and Results

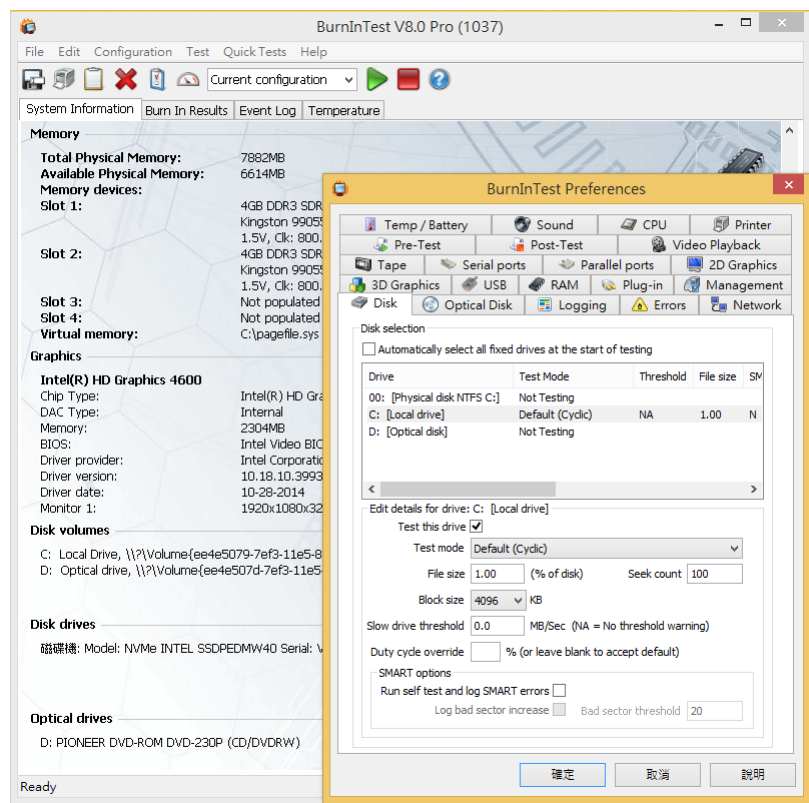
3.1 BurnInTest v8.0 Pro for SSD([INTEL 750 SSDPEDMW400G4R5 Add-in Card](#))

3.1.1 system information as below:

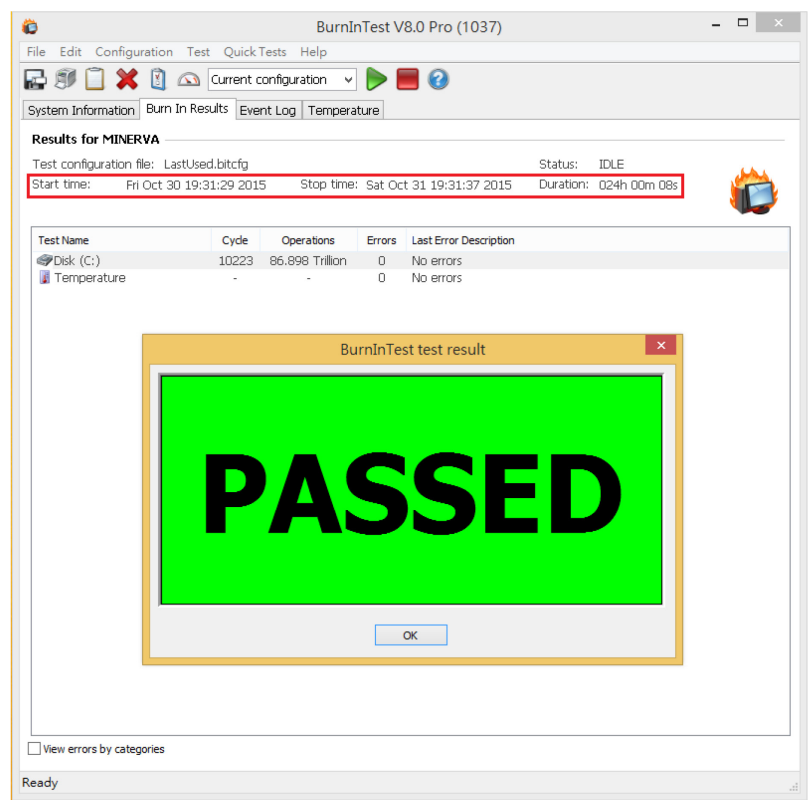


PU3402A Converter Card

3.1.2 show Disk test mode(10 ways cycle test)



3.1.3 show 24-hour Burn-in test PASSED



PU3402A Converter Card

4. Summary

- 4.1 Intel PCI-e SSD is PCI-e Gen 3 / 4 Lanes Interface, I/O speed, max. to 32Gbps.
- 4.2 PU3402A adapter I/O performance is based on Intel PCI-e 400GB SSD.