



# MINERVA

## AD263FB9 / AD263FE9 Converter Card

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### Performance & Burn In Test Rev. 1.0

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# **AD263FB9 / AD263FE9 mSATA SSD to IDE 40pin Adapter**

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## **1. Overview**

AD263FB9 / AD263FE9 series adapter card provides mini PCI-e 52pin connector. These support mSATA SSD into IDE 40pin interface. Built-in JMicron JMH330 controller IC to achieve the conversion of the SATA signals to IDE signals.

## **2. Tools and Results of Performance Measurement**

### **2.1 Test Platform**

M/B : GIGABYTE **GA-X58A-UD3R**  
CPU : Intel **i7-930**, 2.8MHz/ 8G Cache/ 4.8GT  
Memory : Kingston **KVR1333D3N9/2G**, 1333MHz,2G Byte DIMM\*2  
ATX Power : TC START W500, **500W ATX**,12V V2.2 Power Supplier  
Graphic : Asus NVIDIA, **Geforce 210**  
OS : Microsoft **Windows 7 64bit OS**

### **2.2 Test target: (AD263Fx series adapter) and mSATA SSD**



AD263FB9



AD263FE9



mSATA SSD

### **2.3 Install Hardware**

Insert Intel mSATA SSD(**80GB/ SSDMAEMC080G2**)or Sandisk(**64GB/ SDSA5FK-064G**) into AD263Fx9 series converter's mini PCI-e connector, and then with coppers, nuts and screws to fix mSATA SSDs. (Please refer to the Installation Notes). Connect AD263Fx series converter to SATA Port of GA-X58A-UD3R motherboard.

### **2.4 BIOS & Windows 7 OS environment setup**

2.4.1 In BIOS(Basic Input/Output Setup) – Change **AHCI Mode** into **IDE Mode**

[Notice] **IDE don't support SATA AHCI Instructions – TRIM and NCQ**

2.4.2 In Windows 7, formatted SSD to NTFS Mode. Don't install any program.

# **AD263FB9 / AD263FE9 mSATA SSD to IDE 40pin Adapter**

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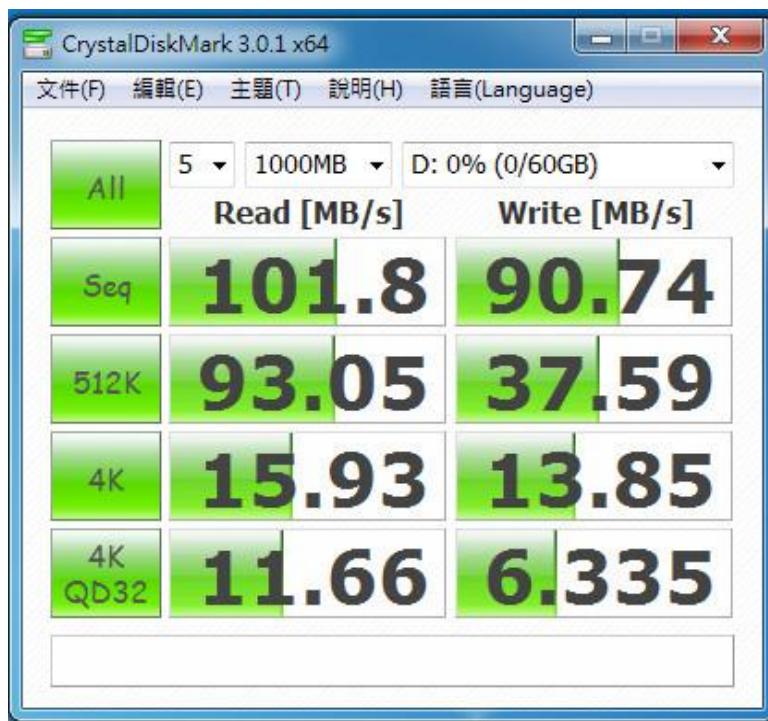
## **2.5 CrystalDiskMark 3.0.1 x64 performance test**

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

2.5.1 Used Intel mSATA SSD(80GB/ SSDMAEMC080G2) performance as below:



2.5.2 Used Sandisk(64GB/ SDSA5FK-064G) performance as below:



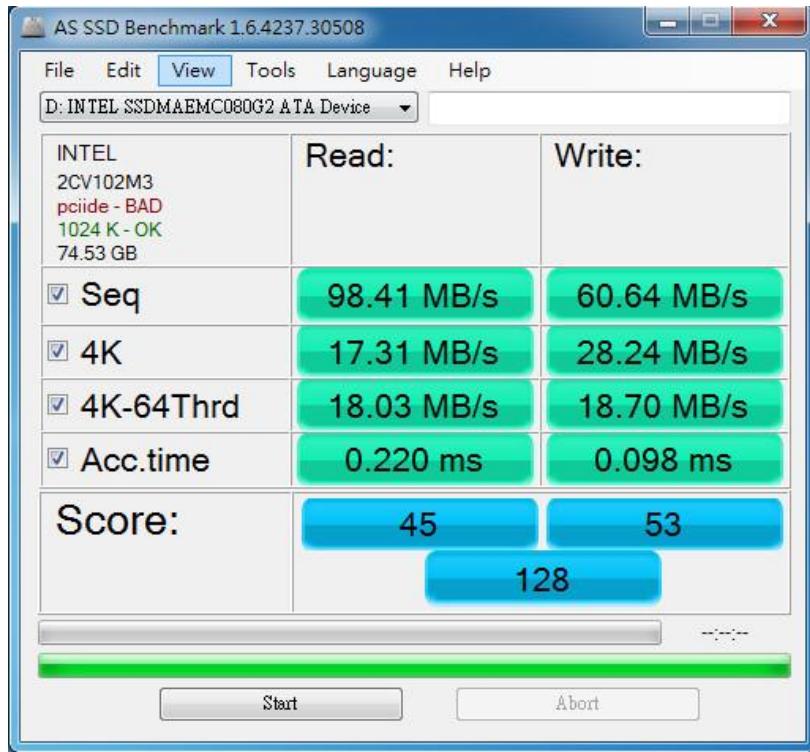
# **AD263FB9 / AD263FE9 mSATA SSD to IDE 40pin Adapter**

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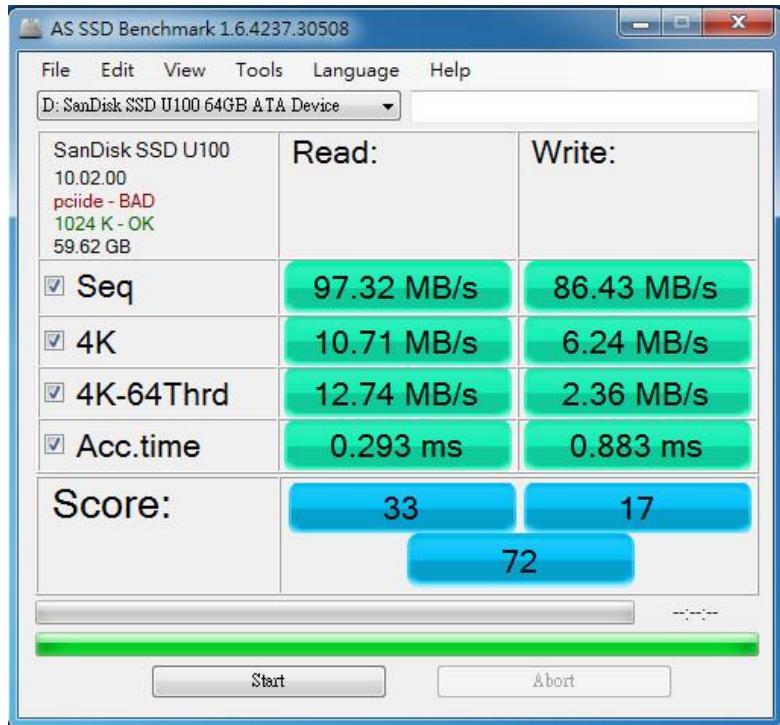
## **2.6 AS SSD Benchmark 1.6 performance test**

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

2.6.1 Used Intel mSATA SSD([80GB](#)/ [SSDMAEMC080G2](#)) performance as below:



2.6.2 Used Sandisk([64GB](#)/ [SDSA5FK-064G](#)) performance as below:

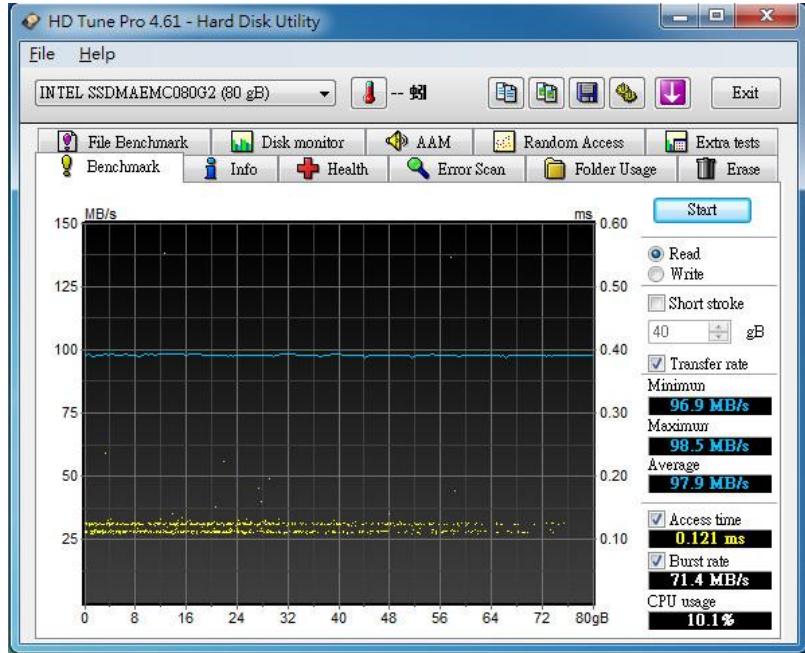


# **AD263FB9 / AD263FE9 mSATA SSD to IDE 40pin Adapter**

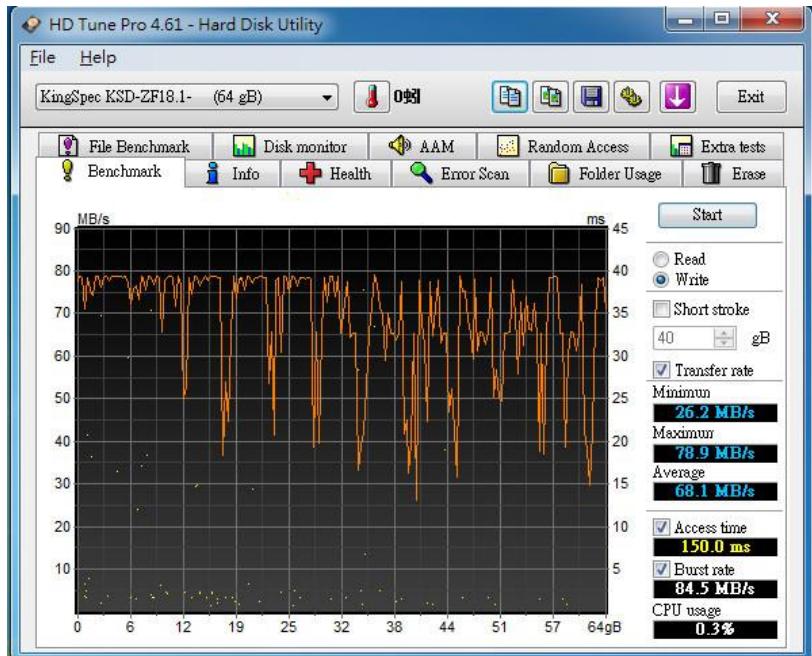
## **2.7 HD Tune pro 4.61 performance test**

※Benchmark (Sequential Read & Write/ default block size = 64KB)

2.7.1 Used Intel mSATA SSD(80GB/ SSDMAEMC080G2) performance as below:



2.7.2 Used Intel mSATA SSD(80GB/ SSDMAEMC080G2) performance as below:

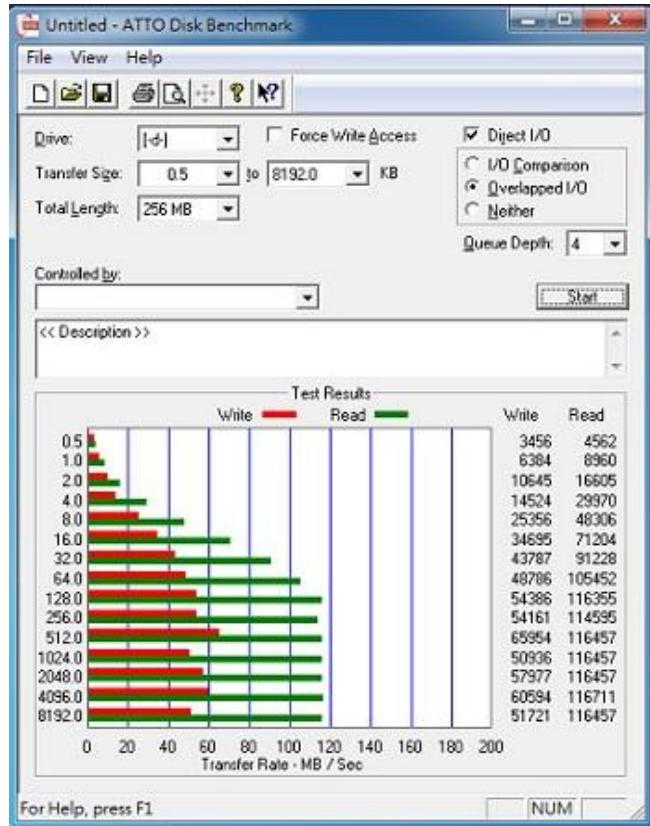


## **2.8 ATTO Disk BenchMark**

# **AD263FB9 / AD263FE9 mSATA SSD to IDE 40pin Adapter**

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2.8.1 Used Intel mSATA SSD(80GB/ SSDMAEMC080G2) performance as below:

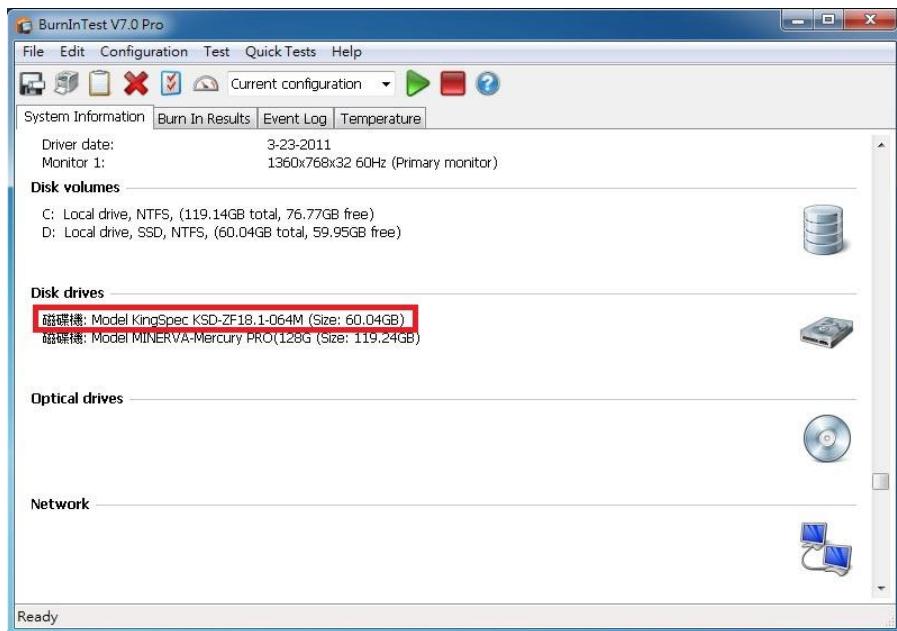


## **Burn In Tests and Results**

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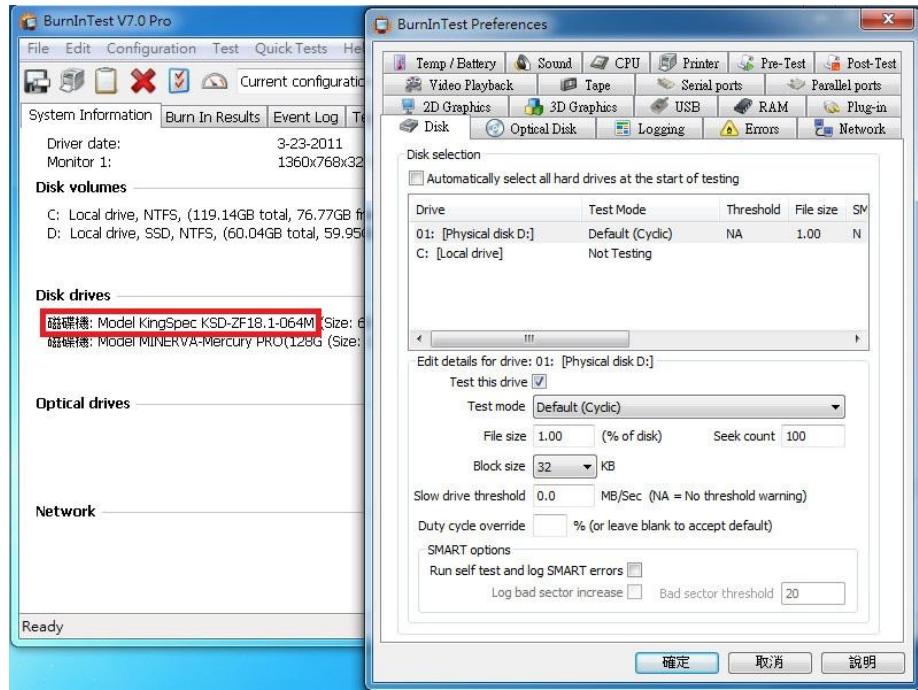
### **3.1 BurnInTest v7.0 Pro**

3.1.1 **system information** for Intel mSATA SSD(80GB/ SSDMAEMC080G2) as below:



3.1.2 show Disk test mode(default cyclic -- 10 ways cycle test)

# AD263FB9 / AD263FE9 mSATA SSD to IDE 40pin Adapter



### 3.1.3 show Intel mSATA SSD(80GB/ SSDMAEMC080G2) 24-hour Burn-in test PASSED



## 4. Summary

SATA to IDE convert, following ATA/ATAPI-7, Current spec I/O speed, max. to 133MB/s.

AD263Fx9 Adapter **only support IDE Master Mode, don't support Slave Mode**

I/O performance of AD263Fx9 adapter is based on mSATA SSD