

CB949MB

效能與燒機老化測試 Rev 1.0

目錄

1. 說明

2. 效能測試工具及測試結果

- 2.1 測試平台
- 2.2 測試標的物及所使用的 IDE 2.5" SSD
- 2.3 安裝硬體
- 2.4 BIOS & Windows 7 OS 環境設定
- 2.5 CrystalDiskMark 3.0.1 x64 效能測試
- 2.6 TxBENCH 0.95 Beta 效能測試
- 2.7 HD Tune pro 5.5 效能測試
- 2.8 ATTO Disk BenchMark 效能測試
- 2.9 AnvilBenchmark_RC6 效能測試

3. 老化工具及測試結果

- 3.1 BurnInTest v7.1 Pro 老化測試
- 4. 後記

CB949MB 轉接卡,提供 IDE 44pin 連接器,可將 2.5" HDD&SSD 轉換成 SATA 7+15pin 標 準接口.

2. 效能測試工具及測試結果

2.1 測試平台

主機板:	GIGABYTE GA-X58A-UD3R
CPU :	Intel i7-930, 2.8MHz/ 8G Cache/ 4.8GT
記憶體:	Kingston KVR1333D3N9/2G, 1333MHz,2G Byte DIMM*2
電源供應器:	TC START W500, 500W ATX,12V V2.2 Power Supplier
顯示卡:	Asus NVIDIA, Geforce 210
作業系統:	Microsoft Windows 7 64bit OS

2.2 測試標的物 CB949MB 轉接卡及所使用的 IDE 2.5" SSD



2.3 安裝硬體

利用 44pin 二端母頭 cable, 一端插入 KingSpec(64G)/ KSD-PA25.6-064MS SSD, 另一端插入 CB949MB 轉接卡 2.5" IDE 44pin 連接器,然後將轉接卡連接到 GA-X58A-UD3R 主機板 SATA Port.

2.4 BIOS & WIN 7 OS 環境設定

- 2.4.1 進入 BIOS(Basic Input /Output Setup)—改變 AHCI 模式到 IDE 模式
- 2.4.2 WIN 7 格式化成 NTFS 模式, 儲存裝置沒有安裝任何程式

2.5 CrystalDiskMark 3.0.1 x64 效能測試

※Benchmark (Sequential Read & Write / 使用預設值 block size = 1MB)

2.5.1 使用 KingSpec(64G)/ KSD-PA25.6-064MS 效能表現如下:



2.6 TxBENCH 0.95 Beta 效能測試

2.6.1 使用 KingSpec(64G)/ KSD-PA25.6-064MS 效能表現如下:



2.7 HD Tune pro 5.5 效能測試

※Benchmark (Sequential Read / Write 使用預設值 block size= 8MB)





2.7.2 使用 KingSpec(64G)/ unformatted sequential Write 效能表現如下:



2.8 ATTO Disk BenchMark 效能測試

혀 Untitled - ATTO Disk Benchmark					
File View Help					
Drive: [-d-] ▼ Force Write Access Transfer Size: 0.5 ↓ to 8192.0 ▼ Total Length: 256 MB ▼	Direct I/0 I/0 Comparison Qverlapped I/0 Neither Queue Depth: 4				
Controlled <u>by:</u>					
	Start				
<< Description >>	^				
1	-				
Test Results					
Write 🚥 Read 🚥	Write Read				
0.5 1.0 2.0 4.0 8.0 16.0 32.0 64.0 128.0 256.0 512.0 1024.0 2048.0 4096.0 8192.0	2107 4756 6590 8784 8682 15360 13986 24576 23184 36141 25095 45616 31447 53096 37882 58125 38778 60963 50123 61248 48454 61286 46043 61426 49344 61147 48541 61008 45808 61356				
0 10 20 30 40 50 60 70 80 90 Transfer Rate - MB / Sec) 100				
For Help, press F1					

2.9 AnvilBenchmark 效能測試

2.9.1 使用 KingSpec(64G)/ KSD-PA25.6-064MS 效能表現如下:

🙆 Anı	Anvil's Storage Utilities 1.0.51 RC6 (2013-Jan-3)							
File	Benchmarks	IOmeter System	m Info Settings	Test size 1GB	💌 Drive 🖃 d: 🛱	「増磁碟區」	▼ Screenshot	Help
SSI	SSD Benchmark KingSpec KSD-PA25.6-064MS A Device 63GB/20130							25.6-064MS ATA 63GB/20130619
	Read	Resp. time	MB read	IOPS	MB/s			
	Seq 4MB	132.2295ms	244.0	7.56	30.25			
	4K	0.4026ms	121.3	2,484.02	9.70			
	4K QD4	1.3766ms	141.9	2,905.62	11.35		Read	
	4K QD16	5.6026ms	139.5	2,855.84	11.16	Run read	244.0	4
	32K	0.8025ms	584.4	1,246.09	38.94			
	128K	2.3306ms	804.9	429.07	53.63	Deem	TOTAL	204 25
	Write	Resp. time	MB written	IOPS	MB/s	Run		291.55
	Seq 4MB	131.4453ms	1,024.0	7.61	30.43			
	4K	2.5846ms	15.1	386.90	1.51	(Duraunite)	Write	1
	4K QD4	7.5278ms	20.8	531.37	2.08	Trait write	47.5	
	4K QD16	40.8740ms	16.9	393.10	1.54			
Micr X58 Inte Men	Microsoft Windows 7 旗艦版 64-bit Build (7600) X58A-UD3R/F5, Socket 1366 Intel(R) Core(TM) i7 CPU 930 @ 2.80GHz Memory : 2,046 MB			Drives : Notes :			KingSpec KSD-PA2 Drive D: 59.2/59.2GB NTFS - Cluster size 40 Storage driver MSA	5.6-064MS ATA Devi free (99.8%) 968 ICI?
Pro	Pro Edition (Release Candidate 6)						Alignment 1024KB OK Compression 100% (Ir	ncompressible)

3. 老化工具及測試結果

3.1 BurnInTest v7.1 Pro 老化燒機測試

3.1.1 **系統資訊**如下:



3.1.2 使用 BurnInTest v7.1 Pro 軟體測試老化-磁碟測試模式(十種方式循環測試)

ystem Information Burn In Re	sults Event Log Temperatu	Temp / Battery Soun Video Playback P Tap	d 💜 CPU 🔊 Pr e 🍬 Serial ports 🚽 B 🖋 RAM	inter 😺 Pre-T Darallel ports	est 📑 2D	Post-Te Graphi gemen
Total Physical Memory: Available Physical Memory: Memory devices: Slot 1:	4094MB 3271MB 2GB DDR3 SDRAM PC3	Disk Optical Di Disk selection Automatically select all ha	sk 🔹 Logging	f testing	2 N	letwork
Slot 2: Slot 3:	1.5V, Clk: 666.7MHz, 1 Not populated 2GB DDR3 SDRAM PC3 Kingston 99U5458-001 1.5V, Clk: 666.7MHz, 1	Drive 00: [Physical disk D:] C: [Local drive] D: [Local drive]	Test Mode Default (Cyclic) Not Testing Not Testing	Threshold NA	File size	SM N
Slot 4: Slot 5: Slot 6: Virtual Memory: Graphics	Not populated Not populated Not populated C:\pagefile.sys (allocate	 ✓ III Edit details for drive: 00: [Test this drive ✓ 	Physical disk D:]			Þ
NYIDIA GeForce 210 Chip Type: DAC Type: Memory: BIOS: Driver provider: Driver version: Driver dte: Monitor 1:	GeForce 210 Integrated RAMDAC 512MB Version 70.18.64.0.5 NVIDIA 8.17.12.6785 3-23-2011 1360x768x32 60Hz (P)	Test mode Defa File size 1.00 Block size 64 Slow drive threshold 0.0 Duty cycle override SMART options Dun self set and los CM	ult (Cydic) (% of disk) KB MB/Sec (NA = Ne % (or leave blank to a	Seek count 1 o threshold warnir ccept default)	• 100 ng)	
Disk volumes C: Local drive, NTFS, (119.1- D: Local drive Dick drive	4GB total, 89.98GB free)	Run self test and log SM Log bad sect	akti errors []] or increase [] Bad se @確定	ctor threshold 2	20	說明

3.1.3 使用 BurnInTest v7.0 Pro 軟體測試老化-時間是 24 小腳

🕫 BurnIn Test V7.1 Pro	_ D X						
File Edit Configuration Test QuickTests Help							
🛃 🗊 📋 💥 🔯 🖎 Current configuration 🕞 🍉 🧱 🕢							
System Information Burn In Results Event Log Temperature							
Results for PERRY-PC							
Test configuration file: LastUsed.bitcfg Status: IDLE	14.						
Start time: Sun Nov 24 11:01:43 2013 Stop time: Mon Nov 25 11:01:51 2013 Duration: 024h 00m	08s 🎇						
Test Name BurnInTest test result	x						
@Disk (0:)							
View errors by categories							
Ready							

4. 後記

- 4.1 2.5" IDE 介面, 目前支援讀寫效能,最高為 133MB.
- 4.2 CB949MB 轉接卡讀寫效能高低,是由 2.5" IDE SSD 決定.