

# **CB949MB** 效能与烧机老化测试 Rev 1.0

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CB949MB 转接卡,提供 IDE 44pin 连接器,可将 2.5" HDD&SSD 转换成 SATA 7+15pin 标 准接口.

#### 2. 效能测试工具及测试结果

2.1 测试平台

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

#### 2.2 测试标的物 CB949MB 转接卡及所使用的 IDE 2.5" SSD



## 2.3 安装硬件

利用 44pin 二端母头 cable, 一端插入 KingSpec(64G)/ KSD-PA25.6-064MS SSD, 另一端插入 CB949MB 转接卡 2.5" IDE 44pin 连接器,然后将转接卡连接到 GA-X58A-UD3R 主板 SATA Port.

#### 2.4 BIOS & WIN 7 OS 环境设定

- 2.4.1 进入 BIOS(Basic Input /Output Setup)—改变 AHCI 模式到 IDE 模式
- 2.4.2 WIN 7 格式化成 NTFS 模式, 储存装置没有安装任何程序

## 2.5 CrystalDiskMark 3.0.1 x64 效能测试

※Benchmark (Sequential Read & Write / 使用默认值 block size = 1MB)

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



## 2.6 TxBENCH 0.95 Beta 效能测试

## 2.6.1 使用 KingSpec(64G)/ KSD-PA25.6-064MS 效能表现如下:



### 2.7 HD Tune pro 5.5 效能测试

※Benchmark (Sequential Read / Write 使用默认值 block size= 8MB)





## 2.8 ATTO Disk BenchMark 效能测试

2.8.1	使用 KingSpec(64G)/ KSD-PA25.6-064MS 效能表现如下:

혀 Untitled - ATTO Disk Benchmark	
File View Help	
Drive: [-d-] ▼ Force Write Access   Transfer Size: 0.5 ▼ 8192.0 ▼   Total Length: 256 MB ▼	✓ Direct I/0 ✓ Direct I/0 ✓ J/0 Comparison ④ verlapped I/0 ⓒ <u>N</u> either Queue Depth: 4 ▼
Controlled <u>by:</u>	Start
<< Description >>	*
Test Results	
Write Read	Write     Read       2107     4756       6590     8784       8682     15360       13986     24576       23184     36141       25095     45616       31447     53096       37882     58125       38778     60963       50123     61248       48544     61286       49344     61147       48541     61008       45808     61356       0     100
For Help, press F1	

## 2.9 AnvilBenchmark 效能测试

## 2.9.1 使用 KingSpec(64G)/ KSD-PA25.6-064MS 效能表现如下:

🖻 Anvil's Storage Utilities 1.0.51 RC6 (2013-Jan-3)						
File Benchmarks IOmeter System Info Settings Test size 1GB 🔹 Drive 回 d (新增磁碟區) 👻 Screenshot Help						
SSD Bench	SSD Benchmark KingSpec KSD-PA25.6-064MS ATA Device 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	244.04
32K	0.8025ms	584.4	1,246.09	38.94		
128K	2.3306ms	804.9	429.07	53.63	-	TOTAL 204 25
Write	Resp. time	MB written	IOPS	MB/s	Run	291.33
Seq 4MB	131.4453ms	1,024.0	7.61	30.43		
4K	2.5846ms	15.1	386.90	1.51	Pupurito	Write
4K QD4	7.5278ms	20.8	531.37	2.08	Hurlywite	47.51
4K QD16	40.8740ms	16.9	393.10	1.54		
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 Pros Efficient (Release Candidate 6)		Drives : Notes :			KingSpec KSD-PA25.6-064MS ATA Devi Drive D: 59.2/59.208 free (99.8%) NTFS - Cluster size 40968 Storage driver MSAHCI? Alignment 1024KB OK	
Compression 100% (Incompressible)						

#### 3. 老化工具及测试结果

#### 3.1 BurnInTest v7.1 Pro 老化烧机测试

3.1.1 **系统信息**如下:



#### 3.1.2 使用 BurnInTest v7.1 Pro 软件测试老化-磁盘测试模式(十种方式循环测试)

system Information Burn In Re	esults   Event Log   Temperatu	📱 Temp / Battery 🔌 Sound 🖾 CPU 🗊 Pri	nter 🛛 💞 Pre-Test 🛛 🍓 Post-T		
Memory		🦉 Video Playback 😰 Tape 💊 Serial ports 🚽	🧼 Parallel ports   🚽 2D Graphi		
Total Physical Memory: Available Physical Memory Memory devices: Slot 1:	4094MB 3271MB 2GB DDR3 SDRAM PC3 Kingston 99U5458-001 1.5V. Clk: 666.7MHz. 1	Duraphies Use KAM Duraphies Dur	testing		
Slot 2: Slot 3: Slot 4:	Not populated 2GB DDR3 SDRAM PC3 Kingston 99U5458-001 1.5V, Clk: 666.7MHz, 7 Not populated	00: [Physical disk D:] Default (Cyclic) C: [Local drive] Not Testing D: [Local drive] Not Testing	NA 1.00 N		
Slot 6:	Not populated	<	•		
Virtual Memory:	C:\pagefile.sys (allocate	Edit details for drive: 00: [Physical disk D:]			
Graphics		Test this drive V Test mode Default (Cydic)	•		
Chip Type: DAC Type: DAC Type: Memory: BIOS: Driver provider: Driver version: Driver version: Driver date: Monitor 1:	GeForce 210 Integrated RAMDAC 512MB Version 70.18.64.0.5 NVIDIA 8.17.12.6785 3-23-2011 1360x768x32 60Hz (P	File size 1.00 (% of disk) Block size 64 KB Slow drive threshold 0.0 MB/Sec (NA = Nc Duty cycle override % (or leave blank to ar SMART options Pun off fact and Ios SMART errors	Seek count 100 threshold warning) ccept default)		
Disk volumes		Log bad sector increase Bad se	ctor threshold 20		
C: Local drive, NTFS, (119.1 D: Local drive	4GB total, 89.98GB free)		取消 說明		
Disk drives					

3.1.3	使用 BurnInTest v7.0 Pro 软件测试老化-时间是 24 小时
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C BurnIn Test V7.1 Pro		- 🗆 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	(h.				
Start time: Sun Nov 24 11:01:43 2013 Stop time: Mon Nov 25 11:01:51 201	.3 Duration: 024h 00m 08s					
Test Name BurnInTest test result	×					
PASS	ED					
Wiew errors by categories   Ready		d				

- 4. 后记
  - 4.1 2.5" IDE 接口, 目前支持读写效能,最高为 133MB.
  - 4.2 CB949MB 转接卡读写效能高低,是由 2.5" IDE SSD 决定.