

Product Qualification

--- Compatibility Test ---

Product Name: SFD 25A-M 128GB (ET)

Product P/N: APS25A77 (B)128G-8A (B)TM1G (W)

Firmware Version: SFDH008A (B)

Controller: SCJC72

Qualification: Qual all

Test Result: PASS

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Alex Lin	2017/06/27	Alex Lin	Danny Chen	2017/06/27	Danny Chen

Table Of Content

SUMMARY RESULT 3

A. Function Test With M/B : ASUS Z170-A 4

 1. Basic Function Test 4

 2. Format Test..... 4

 3. Burn In Test 4

 4. Reboot Test..... 4

 5. Install System Test..... 4

 6. Test Result 4

B. Function Test With M/B : Avalue EMX QM77-A1R 5

 1. Basic Function Test 5

 2. Install System Test..... 5

 3. Test Result 5

C. Performance Test With M/B : Gigabyte GA-Z77X-D3H..... 6

D. Performance Test With M/B : Asus Maximus VI Hero 7

E. Platform Compatibility Test..... 8

F. Additional Qualification: 9

 1. Environmental 9

 2. Certification..... 9

SUMMARY RESULT

		PC1	PC2	PC3	PC4						
Testing Product		SFD 25A-M 128GB									
System		Windows 10	Fedora kernel 3.3.4 -5 fc17								
M/B	Name	Z170-A	QM77-A1R								
	Vendor	ASUS	Avalue EMX								
	Chipset	Intel Z170	Intel QM77								
	Interface	SATA III	SATA III								
	BIOS	2202	V1.1.0								
Test Result											
Basic Function Test		V	V								
Burn In Test	Comp32	V	--								
	PassMark Burn In Test Pro V8.0	V	--								
	PassMark Burn In Test Pro V3.0.1007	--	--								
Warm Boot Test		V	--								
Cold Boot Test		V	--								
		--	--								
		--	--								
Install System Test											
	Windows Emb. 7 Standard	Windows Emb. 8 Standard	Windows Emb. 8.1 Industry	Windows 10	Fedora kernel 3.3.4 -5 fc17	Ubuntu kernel 3.13.0 -32	Red Hat kernel 2.6.32 -431.e16				
Result	V	V	V	V	V	V	V				
Remark:						Test Result — PASS					

A. Function Test With M/B : ASUS Z170-A

Testing Product	SFD 25A-M 128GB	Testing Engineer	Alex Lin
Testing Environment	M/B: ASUS Z170-A	Chipset: Intel Z170 Interface: SATA III	BIOS: 1302

1. Basic Function Test

	Copy	Delete	Restart	Compare	Suspend (S3)	Hibernate (S4)	LED
Windows 10	V	V	V	V	V	V	V

2. Format Test

	FAT32	NTFS
Windows 10	--	119GB

3. Burn In Test

	Comp32 15 hours
Windows 10	V

4. Reboot Test

	Warm Boot 6000 Cycles	Cold Boot 6000 Cycles
Windows 10	V	V

5. Install System Test

Install System	Result
Install Windows Embedded Standard 7 System	V
Install Windows Embedded 8 Standard System	V
Install Windows Embedded 8.1 Industry Pro System	V
Windows 10 Multiple Edition	V
Windows 10 Enterprise	V

6. Test Result

Pass

B. Function Test With M/B : Avalue EMX QM77-A1R

Testing Product	SFD 25A-M 128GB	Testing Engineer	Alex Lin
Testing Environment	M/B: Avalue EMX QM77-A1R	Chipset: Intel QM77 Interface: SATA III	BIOS: V1.1.0

1. Basic Function Test

	Copy	Delete	Restart	Compare	Suspend (S3)	Hibernate (S4)	LED
Fedora kernel 3.3.4 -5 fc17	V	V	V	V	V	V	V

2. Install System Test

Install System	Result
Install Windows Embedded Standard 7 System	V
Install Windows Embedded 8 Standard System	V
Install Windows Embedded 8.1 Industry Pro System	V
Install Windows 7 System	V
Install Windows 8.1 System	V
Install Fedora kernel 3.3.4 -5 System	V
Install Ubuntu kernel 3.13.0 -32 System	V
Install Red Hat Kernel 2.6.32 -431.e16 System	V

3. Test Result

Pass

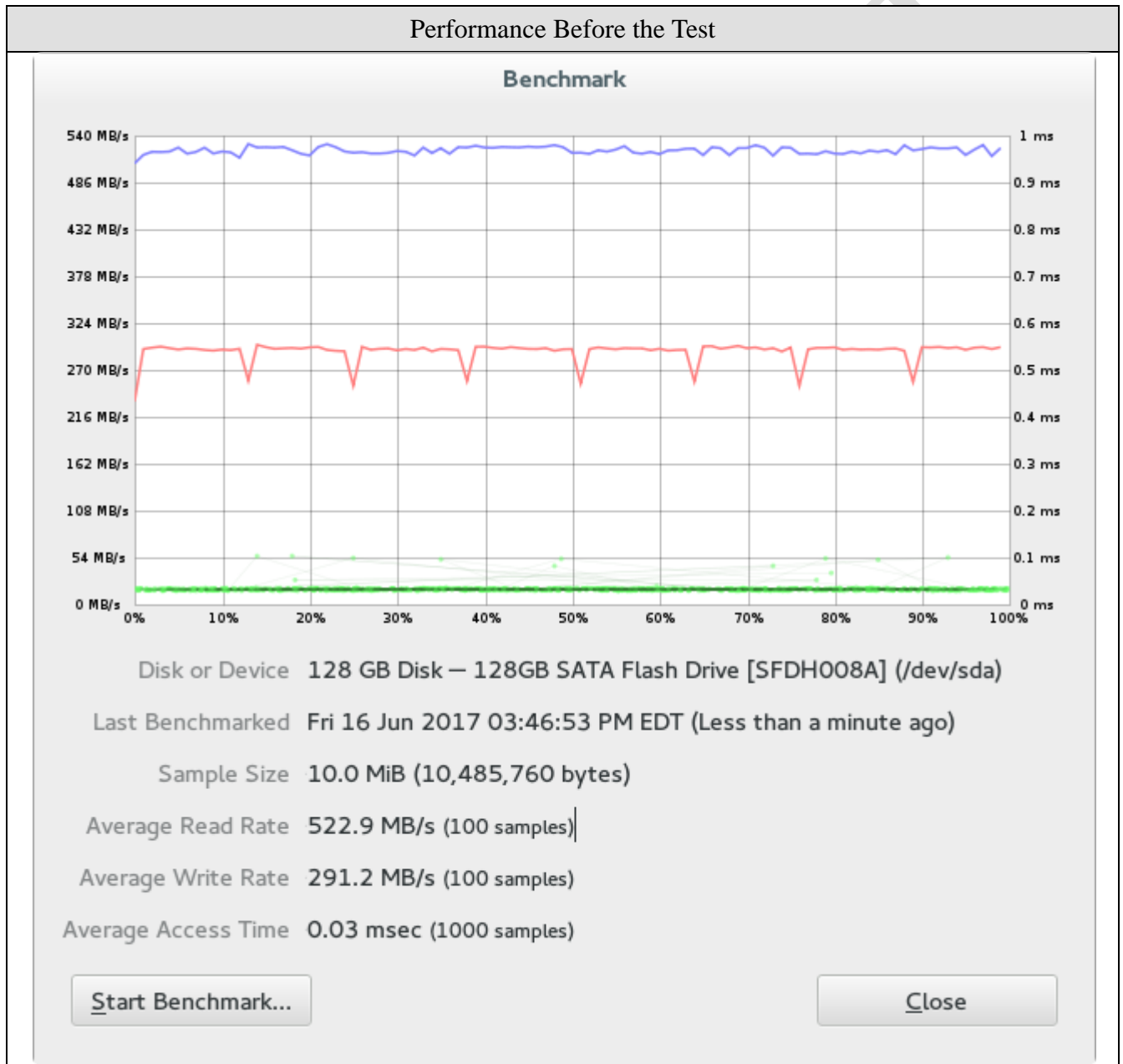
C. Performance Test With M/B : Gigabyte GA-Z77X-D3H

Testing Product	SFD 25A-M 128GB	Testing Engineer	Alex Lin
Testing Environment	M/B: Gigabyte GA-Z77X-D3H	Chipset: Intel Z77 Interface: SATA III	BIOS: F16
Testing Software	CrystalMark 5.0.2		

Test Function : BurnIn Test 168hrs																																	
Before		After																															
 <p>CrystalDiskMark 5.0.2 x64</p> <p>File Settings Theme Help Language</p> <p>All 5 1GiB E: 0% (0/119GiB)</p> <table border="1"> <thead> <tr> <th></th> <th>Read [MB/s]</th> <th>Write [MB/s]</th> </tr> </thead> <tbody> <tr> <td>Seq Q16T1</td> <td>544.3</td> <td>379.2</td> </tr> <tr> <td>4K Q16T1</td> <td>294.5</td> <td>286.6</td> </tr> <tr> <td>Seq</td> <td>502.4</td> <td>382.1</td> </tr> <tr> <td>4K</td> <td>31.01</td> <td>65.31</td> </tr> </tbody> </table>			Read [MB/s]	Write [MB/s]	Seq Q16T1	544.3	379.2	4K Q16T1	294.5	286.6	Seq	502.4	382.1	4K	31.01	65.31	 <p>CrystalDiskMark 5.0.2 x64</p> <p>File Settings Theme Help Language</p> <p>All 5 1GiB E: 0% (0/119GiB)</p> <table border="1"> <thead> <tr> <th></th> <th>Read [MB/s]</th> <th>Write [MB/s]</th> </tr> </thead> <tbody> <tr> <td>Seq Q16T1</td> <td>545.3</td> <td>380.2</td> </tr> <tr> <td>4K Q16T1</td> <td>294.8</td> <td>286.6</td> </tr> <tr> <td>Seq</td> <td>503.4</td> <td>381.5</td> </tr> <tr> <td>4K</td> <td>30.86</td> <td>57.78</td> </tr> </tbody> </table>			Read [MB/s]	Write [MB/s]	Seq Q16T1	545.3	380.2	4K Q16T1	294.8	286.6	Seq	503.4	381.5	4K	30.86	57.78
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D. Performance Test With M/B : Asus Maximus VI Hero

Testing Product	SFD 25A-M 128GB	Testing Engineer	Alex Lin
Testing Environment	M/B: ASUS Maximus VI Hero	Chipset: Intel Z87 Interface: SATA III	BIOS: 0224
Testing Software	Ubuntu 14.10 Benchmark		



E. Platform Compatibility Test

Platform	Chipset	M/B	Interface	System	Result
PC1	Intel Z68	Asus P8Z68-M Pro	SATA III	Win8.1	V
PC2	Intel Z77	Gigabyte IVB	SATA III	Win8.1	V
PC3	Intel Z87	Asus Maximus VI Hero	SATA III	Win8.1	V
PC4	Intel Z77	GA-Z77X-D3H	SATA III	Win8.1	V
PC5	Intel QM77	Avalue EMX QM77-A1R	SATA III	Win8.1	V
PC6	AMD 790FX	Asus M4A79T Deluxe	SATA III	Win8.1	V
PC7	AMD 790GX	Asus M4A78T-E	SATA III	Win8.1	V
PC8	AMD A88X	Asus A88XM-A	SATA III	Win8.1	V

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F. Additional Qualification:

1. Environmental

- 1. RoHS Standard 2011/65/EU , 2015/863/EU
- 2. Other Environmental Standard EC/1907/2006
- 3. WEEE (By Product) 2012/19/EU
- 4. Battery Standard N/A
- 5. Packing Standard 94/62/EC
- 6. Others N/A

2. Certification

- 1. CE No. _____
- 2. FCC No. _____
- 3. BSMI No. _____
- 4. VCCC No. _____
- 5. C-tick No. _____
- 6. Other _____