

Product Qualification

--- Compatibility Test ---

Product Name: SFD 25A-M 128GB

Firmware Version: SFDH105B_SVN562_20150817

Description: SFD 25A-M 128GB

Controller: Jmicron JMF667H

Flash Type: TH58TFG8DDLBA4C

PCB Version: 48.28262.0020B

Qualification: Qual FW

Test Result: Pass

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Alex Lin	2015/10/19	Alex Lin	Danny Chen	2015/10/19	<i>Danny Chen</i>

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SUMMARY RESULT

		PC1	PC2	PC3	PC4	PC5					
Testing Product		SFD 25A-M 128GB									
System		Windows 7 Windows 8	Windows 7 Windows 8	Windows 7 Fedora 17							
M/B	Name	Z170-A	M4A89GTD PRO USB3	EMX QM77-A1R							
	Vendor	ASUS	Asus	Avalue							
	Chipset	Intel Z77	AMD 890GX / SB850	Intel QM77							
	Interface	SATA III	SATA III	SATS III							
	BIOS	0502	3207	V1.10							
Test Result											
Basic Function Test		V	V	V							
Burn In Test	Comp32	V	V	V							
	Iometer 2006.07.27RC3	V	V	V							
	PassMark Burn In Test Pro V6.0.1018	V	V	V							
Warm Boot Test		V	V	V							
Cold Boot Test		--	--	V							
Power Failure Test		--	--	V							
Temp 60°C Burn In Test		--	--	V							
Install System Test											
	Windows CE	Windows XP-E	Windows Emb. 7 Standard	Windows Emb. 8.1 Industry	Windows XP	Windows 7	Windows 8.1	Fedora 17	Ubuntu 12.04	Red Hat 6.3	
Result	V	V	V	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: 0502

1. Basic Function Test

	Copy	Delete	Restart	Compare	Suspend (S3)	Hibernate (S4)	LED
Win 8	V	V	V	V	V	V	V
Win 10	V	V	V	V	V	--	V

2. Format Test

	FAT32	NTFS	exFAT
Win 8	--	119GB	--
Win 10	--	119GB	--

3. Burn In Test

	Comp32 15 hours	Iometer(2006.07.27-RC3) 15 hours	Burn In Test V6.0 Pro 48 hours
Win 10	V	V	V

4. Reboot Test

	Warm Boot 2000 Cycles
Win 10	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
Install Windows XP System	V
Install Windows 7 System	V
Install Windows 8.1 System	V
Windows 10 Multiple Edition	V
Windows 10 Enterprise	V

6. Test Result

Pass

B. Function Test With M/B : Asus M4A89GTD PRO USB3

Testing Product	SFD 25A-M 128GB	Testing Engineer	Alex Lin
Testing Environment	M/B: ASUS M4A89GTD PRO USB3	Chipset: AMD 890GX / SB850 Interface: SATA III	BIOS: 3027

1. Basic Function Test

	Copy	Delete	Restart	Compare	Suspend (S3)	Hibernate (S4)	LED
Win XP	V	V	V	V	V	V	V
Win 7	V	V	V	V	V	V	V

2. Format Test

	FAT32	NTFS	exFAT
Win XP	--	119GB	--
Win 7	--	119GB	--

3. Burn In Test

	Comp32 15 hours	Iometer(2006.07.27-RC3) 15 hours	Burn In Test V6.0 Pro 48 hours
Win XP	V	V	V

4. Reboot Test

	Warm Boot 2000 Cycles
Win XP	V

5. Install System Test

Install System	Result
Install Windows CE System	V
Install Windows XP-E System	V
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 XP System	V
Install Windows 7 System	V
Install Windows 8.1 System	V
Windows 10 Multiple Edition	V
Windows 10 Enterprise	V
Install Fedora 17 System	V
Install Ubuntu 12.04 System	V
Install Red Hat 6.3 System	V

6. Test Result

Pass

C. 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: V1.10

1. Basic Function Test

	Copy	Delete	Restart	Compare	Suspend (S3)	Hibernate (S4)	LED
Win 7	V	V	V	V	V	V	V
Fedora 17	V	V	V	V	V	V	V

2. Format Test

	FAT32	NTFS	exFAT
Win 7	--	119GB	--

3. Burn In Test

	Comp32 15 hours	Iometer(2006.07.27-RC3) 15 hours	Burn In Test V6.0 Pro 48 hours	Burn In Test V6.0 Pro Temp 60°C, 48 hours
Win 7	V	V	V	V

4. Reboot Test

	Warm Boot 2000 Cycles	Cold Boot 2000 Cycle
Win 8	V	V

5. Power Failure Test

	2000 Cycles
Linux	V

6. Install System Test

Install System	Result
Install Windows CE System	V
Install Windows XP-E System	V
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 XP System	V
Install Windows 7 System	V
Install Windows 8.1 System	V
Install Fedora 17 System	V
Install Ubuntu 12.04 System	V
Install Red Hat 6.3 System	V

7. Test Result

Pass

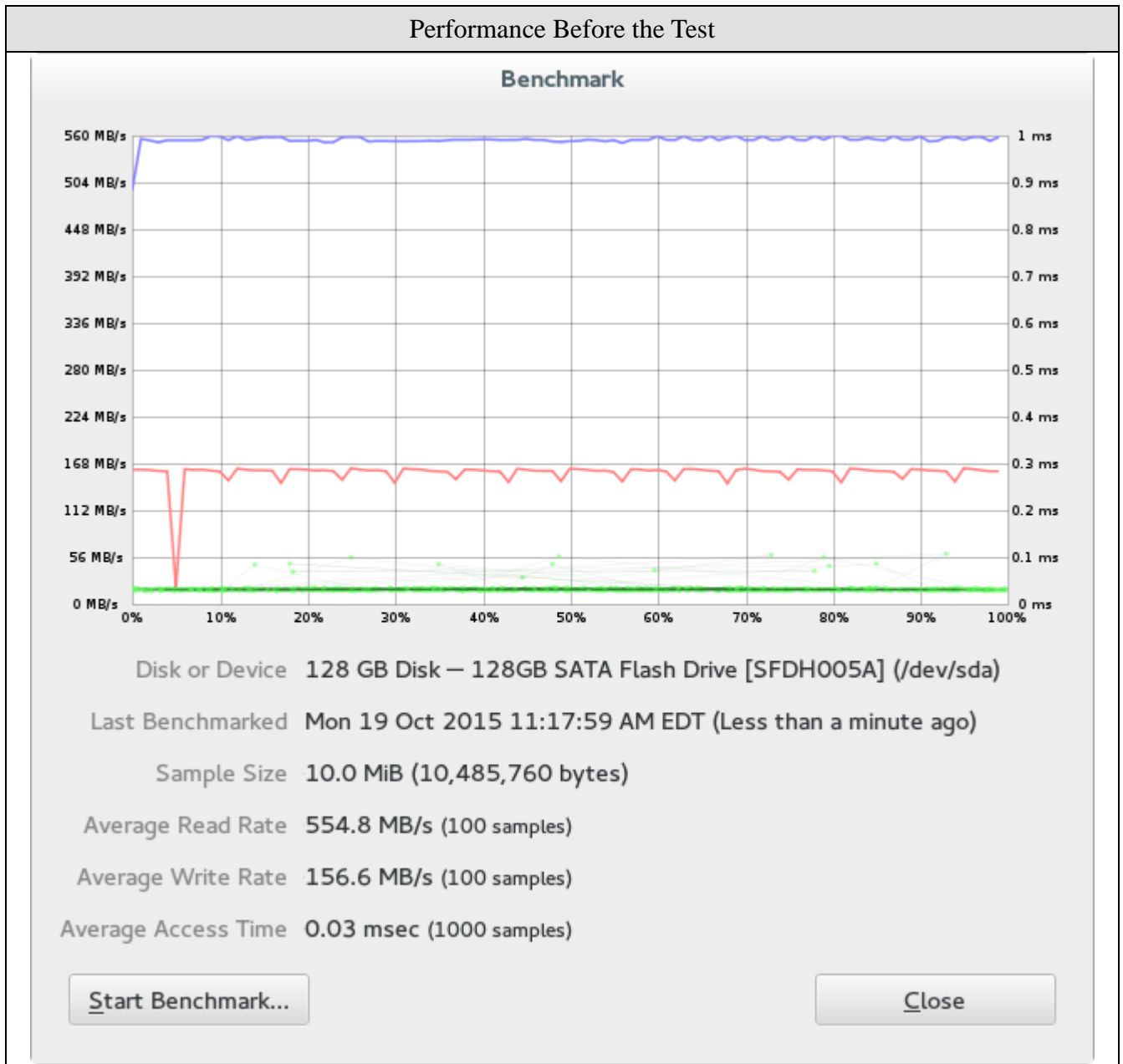
D. Performance Test With M/B : Asus P8Z77-V PRO

Testing Product	SFD 25A-M 128GB	Testing Engineer	Alex Lin
Testing Environment	M/B: ASUS P8Z77-V PRO	Chipset: Intel Z77 Interface: SATA III	BIOS: 1206
Testing Software	CrystalMark 3.0.2		

Performance Before the Test	Performance After the Test																																				
<table border="1"> <thead> <tr> <th></th> <th>Read [MB/s]</th> <th>Write [MB/s]</th> </tr> </thead> <tbody> <tr> <td>All</td> <td>481.2</td> <td>175.4</td> </tr> <tr> <td>Seq</td> <td>481.2</td> <td>175.4</td> </tr> <tr> <td>512K</td> <td>413.2</td> <td>180.7</td> </tr> <tr> <td>4K</td> <td>33.67</td> <td>61.65</td> </tr> <tr> <td>4K QD32</td> <td>279.2</td> <td>179.1</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	All	481.2	175.4	Seq	481.2	175.4	512K	413.2	180.7	4K	33.67	61.65	4K QD32	279.2	179.1	<table border="1"> <thead> <tr> <th></th> <th>Read [MB/s]</th> <th>Write [MB/s]</th> </tr> </thead> <tbody> <tr> <td>All</td> <td>491.0</td> <td>178.6</td> </tr> <tr> <td>Seq</td> <td>491.0</td> <td>178.6</td> </tr> <tr> <td>512K</td> <td>414.1</td> <td>180.8</td> </tr> <tr> <td>4K</td> <td>33.39</td> <td>62.11</td> </tr> <tr> <td>4K QD32</td> <td>270.3</td> <td>179.4</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	All	491.0	178.6	Seq	491.0	178.6	512K	414.1	180.8	4K	33.39	62.11	4K QD32	270.3	179.4
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E. 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		



F. Platform Compatibility Test

Platform Information				Test Item					
Chipset	M/B	Interface	System	Format	Copy	Delete	Compare	Restart	Suspend
Intel G35	Asus P5E-VM HDMI	SATA II	Win7	V	V	V	V	V	V
Intel P55	Asus P7P55D	SATA II	Win7	V	V	V	V	V	V
Intel H67	Gigabyte PH67A-D3-B3	SATA II	Win8	V	V	V	V	V	V
Intel Z68	Asus P8Z68-M Pro	SATA II	Win8	V	V	V	V	V	V
Intel Z77	Gigabyte IVB	SATA II	Win7	V	V	V	V	V	V
		SATA III	Win7	V	V	V	V	V	V
Intel Z87	Asus Maximus VI Hero	SATA III	Win8.1	V	V	V	V	V	V
Intel Z77	GA-Z77X-D3H	SATA III	Win8	V	V	V	V	V	V
Intel QM77	Avalue EMX QM77-A1R	SATA III	Win8	V	V	V	V	V	V
AMD 780G	Ausu M3A78-EM	SATA II	Win7	V	V	V	V	V	V
AMD 785G	Asus M4A785D-M Pro	SATA II	Win7	V	V	V	V	V	V
AMD 790FX	Asus M4A79T Deluxe	SATA II	Win7	V	V	V	V	V	V
AMD 790GX	Asus M4A78T-E	SATA II	Win8.1	V	V	V	V	V	V
AMD A88X	Asus A88XM-A	SATA III	Win8.1	V	V	V	V	V	V

G. Additional Qualification:

1. Environmental

- 1. RoHS Standard _____
- 2. Other Environmental Standard _____
- 3. WEEE (By Product) _____
- 4. Battery Standard _____
- 5. Packing Standard _____
- 6. Others _____

2. Certification

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