

Product Qualification

--- Compatibility Test ---

Product Name: SS220-300B ET 8GB
Firmware Version: SFDN003E
Controller: Jmicron JM60D
Qualification: Qual all
Test Result: PASS

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Alex Lin	2017/02/06	Alex Lin	Danny Chen	2017/02/06	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. Test Result 4

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

 1. Basic Function Test 5

 2. 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		SS220-300B ET 8GB									
System		Windows Emb. 8.1 Industry Pro	Fedora kernel 3.3.4 -5 fc17 / Windows Emb. 8.1 Industry Pro								
M/B	Name	Z170-A	QM77-A1R								
	Vendor	ASUS	Avalue EMX								
	Chipset	Intel Z170	Intel QM77								
	Interface	SATA III	SATA III								
	BIOS	1302	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		--	--								
Cold Boot Test		--	--								
		--	--								
		--	--								
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	--	--	--	--	--	--	--				
Remark:						Test Result — PASS					

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

Testing Product	SS220-300B ET 8GB	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 Emb. 8.1 Industry Pro	V	V	V	V	V	V	V

2. Format Test

	FAT32	NTFS
Windows Emb. 8.1 Industry Pro	7.44GB	7.45GB

3. Burn In Test

	Comp32 15 hours	Burn In Test V8.0 Pro 168 hours
Windows Emb. 8.1 Industry Pro	V	V

4. Test Result

Pass

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

Testing Product	SS220-300B ET 8GB	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. Test Result

Pass

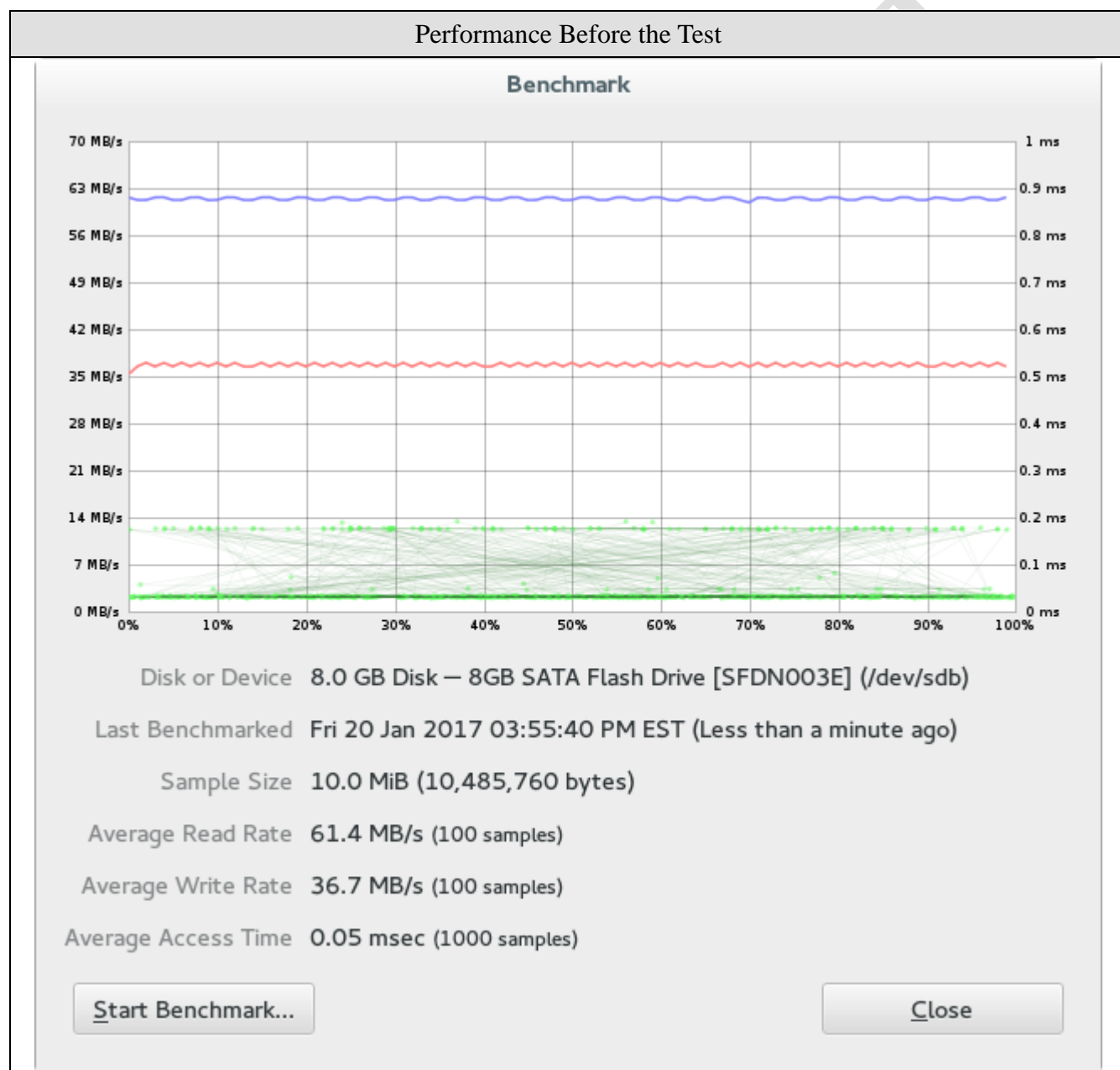
C. Performance Test With M/B : Gigabyte GA-Z77X-D3H

Testing Product	SS220-300B ET 8GB	Testing Engineer	Alex Lin
Testing Environment	M/B: Gigabyte GA-Z77X-D3H	Chipset: Intel Z77 Interface: SATA III	BIOS: F16
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>Seq</td> <td>60.77</td> <td>34.83</td> </tr> <tr> <td>512K</td> <td>60.29</td> <td>34.81</td> </tr> <tr> <td>4K</td> <td>22.38</td> <td>4.335</td> </tr> <tr> <td>4K QD32</td> <td>50.78</td> <td>4.424</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	Seq	60.77	34.83	512K	60.29	34.81	4K	22.38	4.335	4K QD32	50.78	4.424	<table border="1"> <thead> <tr> <th></th> <th>Read [MB/s]</th> <th>Write [MB/s]</th> </tr> </thead> <tbody> <tr> <td>Seq</td> <td>60.78</td> <td>34.83</td> </tr> <tr> <td>512K</td> <td>60.28</td> <td>34.80</td> </tr> <tr> <td>4K</td> <td>22.24</td> <td>4.375</td> </tr> <tr> <td>4K QD32</td> <td>50.85</td> <td>4.479</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	Seq	60.78	34.83	512K	60.28	34.80	4K	22.24	4.375	4K QD32	50.85	4.479
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D. Performance Test With M/B : Asus Maximus VI Hero

Testing Product	SS220-300B ET 8GB	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 _____

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