Product Qualification

--- Compatibility Test ---

Product Name: SM220-300B 16GB

Firmware Version: SFDN003E

Controller: Jmicron JM60D

Qualification: Qual all

Test Result: PASS

APPROVAL					
QT	**Date**	**Signature**	**Approved by**	**Date**	**Signature**
Alex Lin	**2017/01/06**	**Alex Lin**	**Danny Chen**	**2017/01/06**	**Danny Chen**

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SUMMARY RESULT

		PC1	PC2	PC3	PC4
Testing Product		SM220-300B 16GB			
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		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	SM220-300B 16GB	**Testing Engineer**	Alex Lin
Testing Environment	**M/B:** ASUS Z170-A	**Chipset:** Intel Z170	**BIOS:** 1302
		Interface: SATA III	

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	14.8GB	14.9GB

3. Burn In Test

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

4. Reboot Test

	Warm Boot 6000 Cycles
Windows Emb. 8.1 Industry Pro	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	SM220-300B 16GB	**Testing Engineer**	Alex Lin
Testing Environment	**M/B:** Avalue EMX QM77-A1R	**Chipset:** Intel QM77	**BIOS:** V1.1.0
		Interface: SATA III	

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. Reboot Test

	Cold Boot 6000 Cycles
Windows Emb. 8.1 Industry Pro	V

3. Install System Test

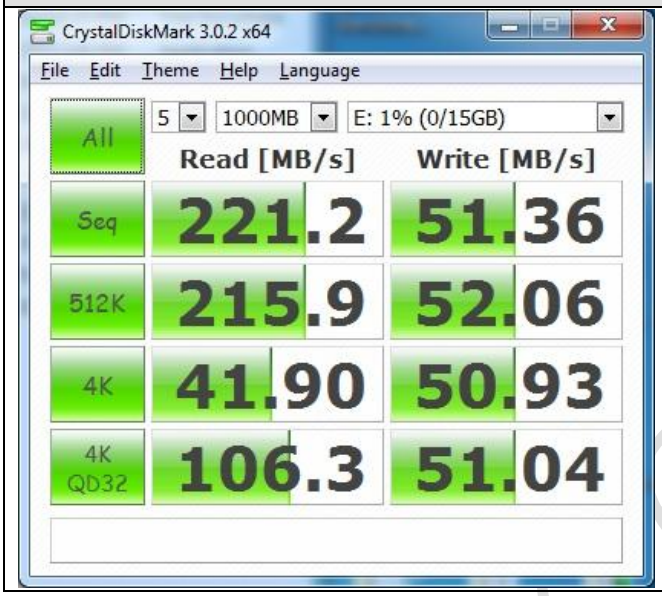
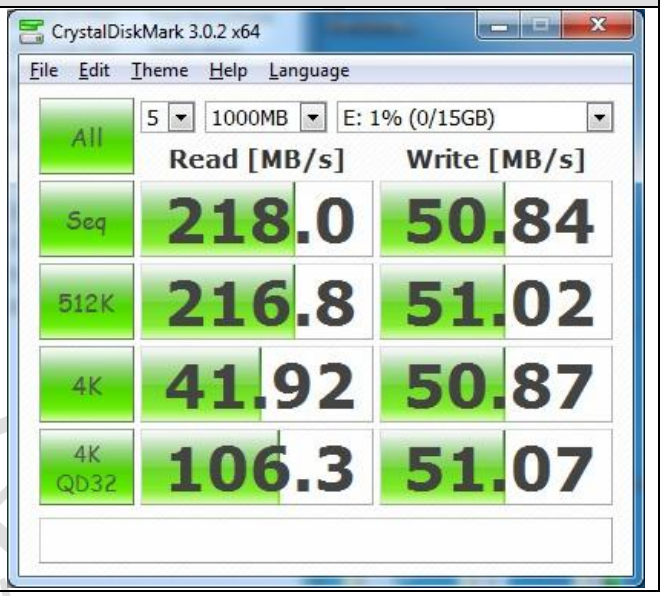
Install System	Result
Install Windows Embedded Standard 7 System	V
Install Windows Embedded 8 Standard System	V
Install Windows Embedded 8.1 Industry Pro System	V
Install Windows 7 System	V
Install Windows 8.1 System	V
Install Fedora kernel 3.3.4 -5 System	V
Install Ubuntu kernel 3.13.0 -32 System	V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

4. Test Result

Pass

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

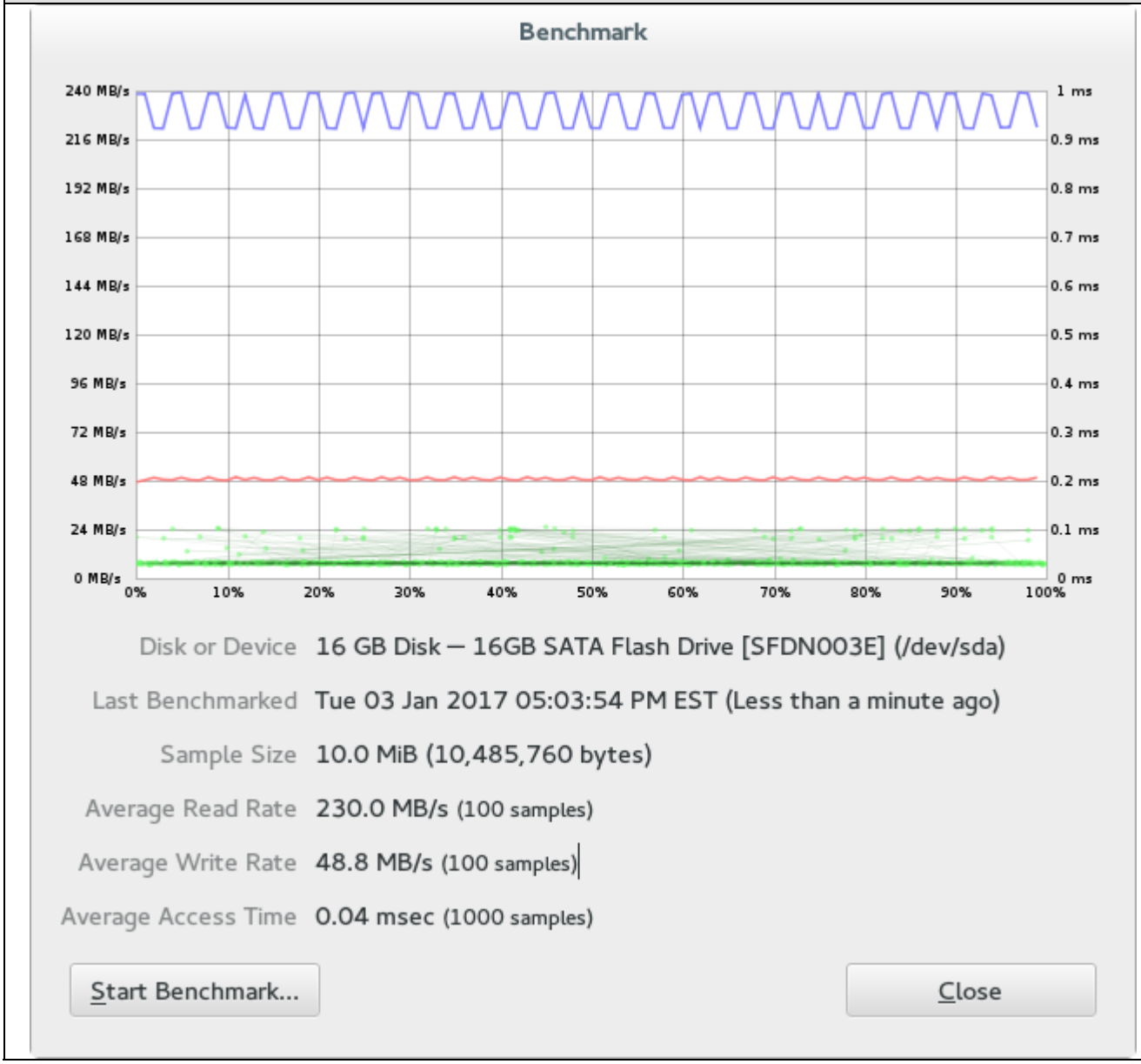
Testing Product	SM220-300B 16GB	**Testing Engineer**	Alex Lin
Testing Environment	**M/B:** Gigabyte GA-Z77X-D3H	**Chipset:** Intel Z77 **Interface:** SATA III	**BIOS:** F16
Testing Software	CrystalMark 3.0.2		

Performance Before the Test	Performance After the Test
	

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

Testing Product	SM220-300B 16GB	**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		

Performance Before the Test



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

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 _____