

Product Qualification

--- Compatibility Test ---

Product Name: SM210-25 256GB

Description: SM210-25 256GB

Qualification: Qual all

Test Result: PASS

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Alex Lin	2019/12/20	Alex Lin	Danny Chen	2019/12/20	Danny Chen

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SUMMARY RESULT

		PC1	PC2	PC3	PC4						
Testing Product		SM210-25 256GB									
System		Windows 10 / Windows Emb. 8.1 Industry	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		√	√								
Burn In Test	Comp32	√	--								
	PassMark Burn In Test Pro V8.0	√	--								
	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	SM210-25 256GB	Testing Engineer	Alex Lin
Testing Environment	M/B: ASUS Z170-A	Chipset: Intel Z170 Interface: SATA III	BIOS: 2202

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	--	238GB

3. Burn In Test

	Comp32 15 hours	Burn In Test V8.0 Pro 168 hours
Windows 10	V	V

4. Reboot Test

	Warm Boot 6000 Cycles	Cold Boot 6000 Cycles
Windows Emb. 8.1 Industry	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	SM210-25 256GB	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 : ASUS Z170-A

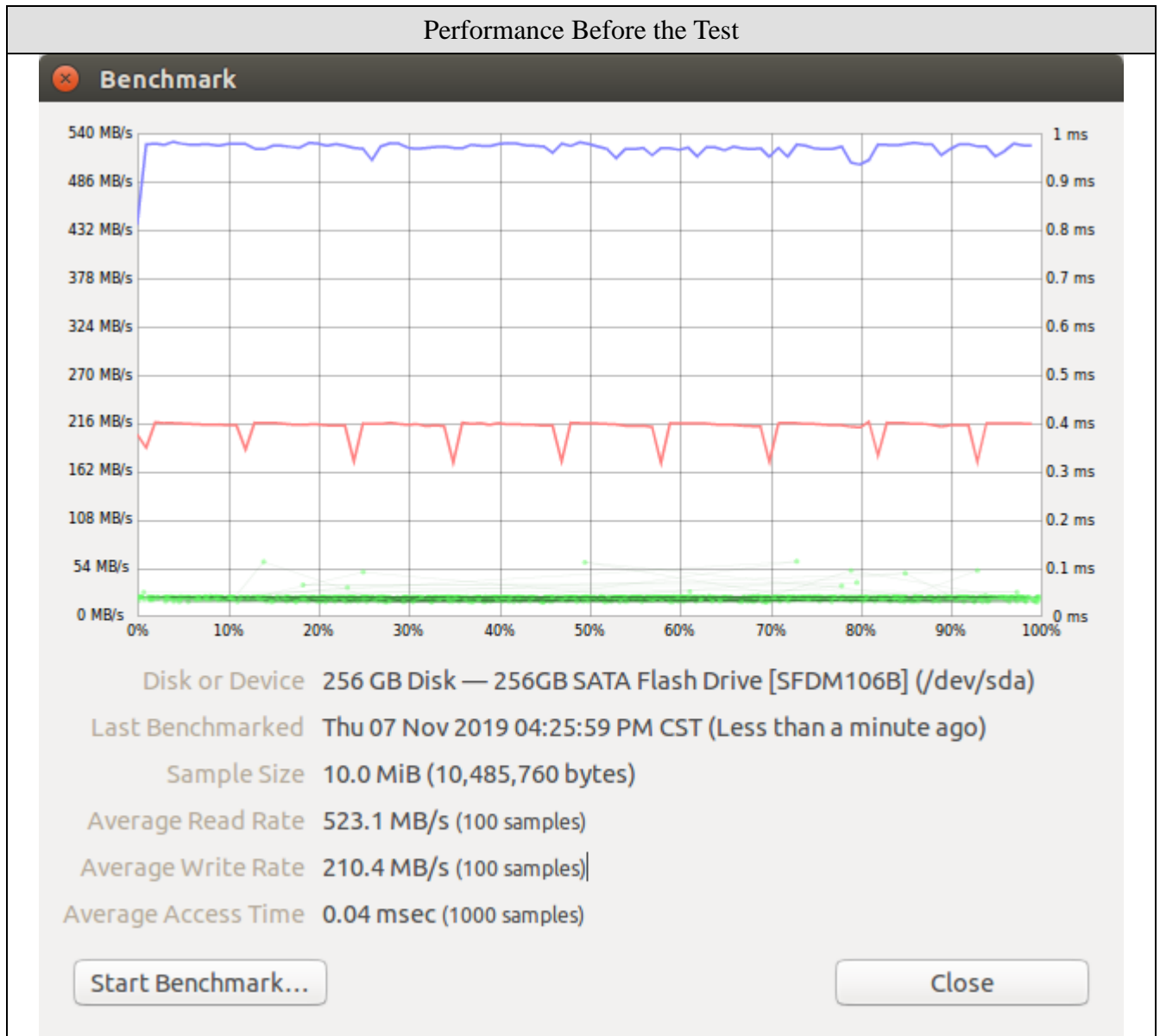
Testing Product	SM210-25 256GB	Testing Engineer	Alex Lin
Testing Environment	M/B: ASUS Z170-A	Chipset: Intel Z170 Interface: SATA III	BIOS: 3802
Testing Software	CrystalMark 6.0.2		

Test Function : BurnIn Test 168hrs			
Before		After	
Seq Q32T1	545.6	347.8	
4KiB Q8T8	339.7	317.9	
4KiB Q32T1	338.5	320.9	
4KiB Q1T1	35.89	108.8	
Seq Q32T1	545.0	346.4	
4KiB Q8T8	340.0	318.7	
4KiB Q32T1	338.4	316.8	
4KiB Q1T1	35.50	105.2	

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

Testing Product	SM210-25 256GB	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 A88X	Asus A88XM-A	SATA III	Win8.1	V
PC7	Intel Z170	Gigabyte Z170MX-Gaming 5	SATA III	Win10	V
PC8	Intel Z270	Gigabyte Z270-Gaming 5	SATA III	Win10	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 _____