

## Product Qualification

### --- Compatibility Test ---

**Product Name:** SM210-25 512GB  
**Description:** SM210-25 512GB  
**Qualification:** Qual all  
**Test Result:** PASS

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Alex Lin	2017/05/26	Alex Lin	Danny Chen	2017/05/26	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. Install System Test..... 4

    5. Test Result ..... 4

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

    1. Basic Function Test ..... 5

    2. Reboot Test..... 5

    3. Install System Test..... 5

    4. Test Result ..... 5

**C. Performance Test With M/B : ASUS Z170-A ..... 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		SM210-25 512GB									
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								
<b>Test Result</b>											
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		--	√								
		--	--								
		--	--								
<b>Install System Test</b>											
	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	√	√	√	√	√	√	√				
<b>Remark:</b>						Test Result — PASS					

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

<b>Testing Product</b>	SM210-25 512GB	<b>Testing Engineer</b>	Alex Lin
<b>Testing Environment</b>	<b>M/B:</b> ASUS Z170-A	<b>Chipset:</b> Intel Z170 <b>Interface:</b> SATA III	<b>BIOS:</b> 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	--	476GB

### 3. Burn In Test

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

### 4. 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

### 5. Test Result

Pass

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

<b>Testing Product</b>	SM210-25 512GB	<b>Testing Engineer</b>	Alex Lin
<b>Testing Environment</b>	<b>M/B:</b> Avalue EMX QM77-A1R	<b>Chipset:</b> Intel QM77 <b>Interface:</b> SATA III	<b>BIOS:</b> 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. Reboot Test

	Warm Boot 6000 Cycles	Cold Boot 6000 Cycles
Fedora kernel 3.3.4 -5 fc17	V	V

### 3. Install System Test

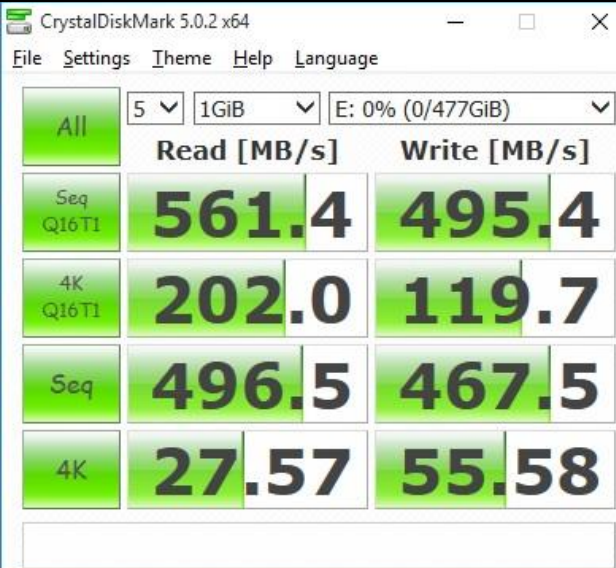
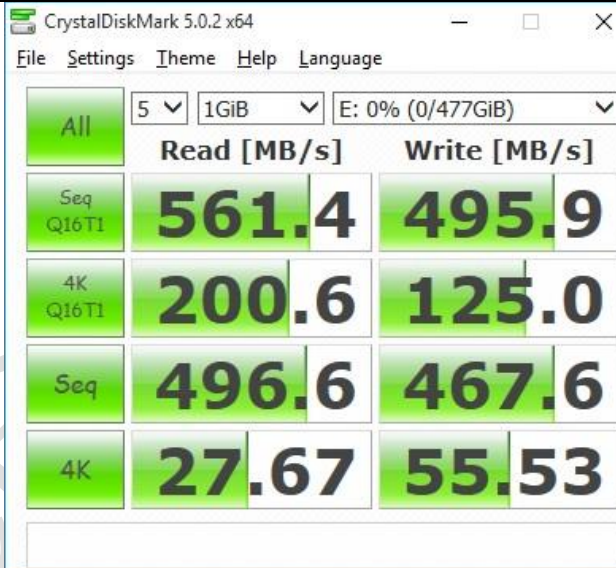
Install System	Result
Install Windows Embedded Standard 7 System	V
Install Windows Embedded 8 Standard System	V
Install Windows Embedded 8.1 Industry Pro System	V
Install Windows 7 System	V
Install Windows 8.1 System	V
Install Fedora kernel 3.3.4 -5 System	V
Install Ubuntu kernel 3.13.0 -32 System	V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

### 4. Test Result

Pass

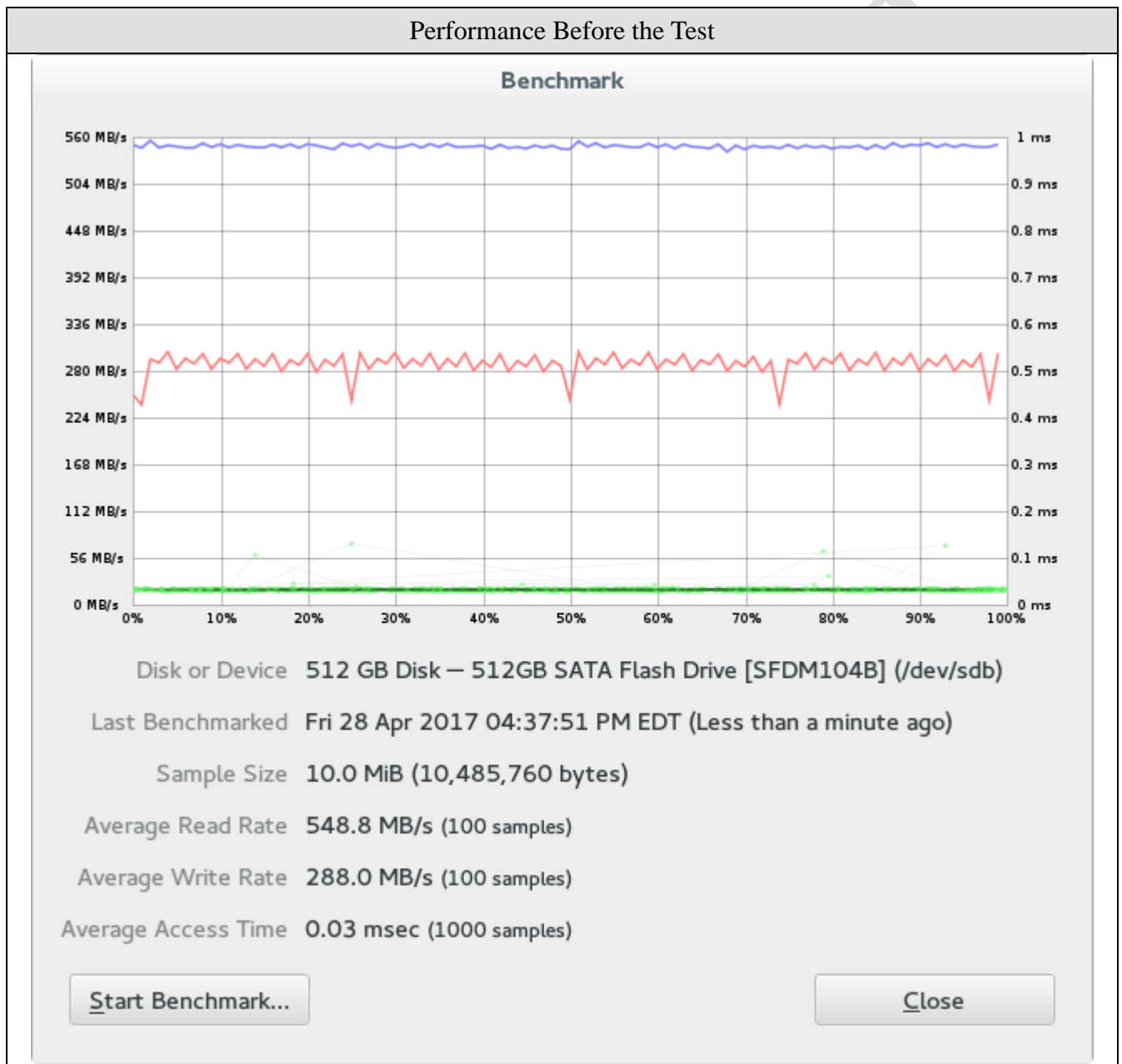
## C. Performance Test With M/B : ASUS Z170-A

Testing Product	SM210-25 512GB	Testing Engineer	Alex Lin
Testing Environment	M/B: ASUS Z170-A	Chipset: Intel Z170 Interface: SATA III	BIOS: 1302
Testing Software	CrystalMark 3.0.2		

Test Function : BurnIn Test 168hrs			
Before		After	
			

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

Testing Product	SM210-25 512GB	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

**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 \_\_\_\_\_

Apacer