

Product Qualification

--- Compatibility Test ---

Product Name: SM210-25 32GB

Description: SM210-25 32GB

Qualification: Qual all

Test Result: PASS

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Alex Lin	2019/07/31	Alex Lin	Danny Chen	2019/07/31	Danny Chen

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SUMMARY RESULT

		PC1	PC2	PC3	PC4						
Testing Product		SM210-25 32GB									
System		Windows 10	Fedora kernel 3.3.4 -5 fc17								
M/B	Name	Z97X-UD3H-CF	QM77-A1R								
	Vendor	Gigabyte	Avalue EMX								
	Chipset	Intel Z97	Intel QM77								
	Interface	SATA III	SATA III								
	BIOS	F9	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 : Gigabyte Z97X-UD3H-CF

Testing Product	SM210-25 32GB	Testing Engineer	Alex Lin
Testing Environment	M/B: Gigabyte Z97X-UD3H-CF	Chipset: Intel Z97 Interface: SATA III	BIOS: F9

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	29.7GB	29.8GB

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 10	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 32GB	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

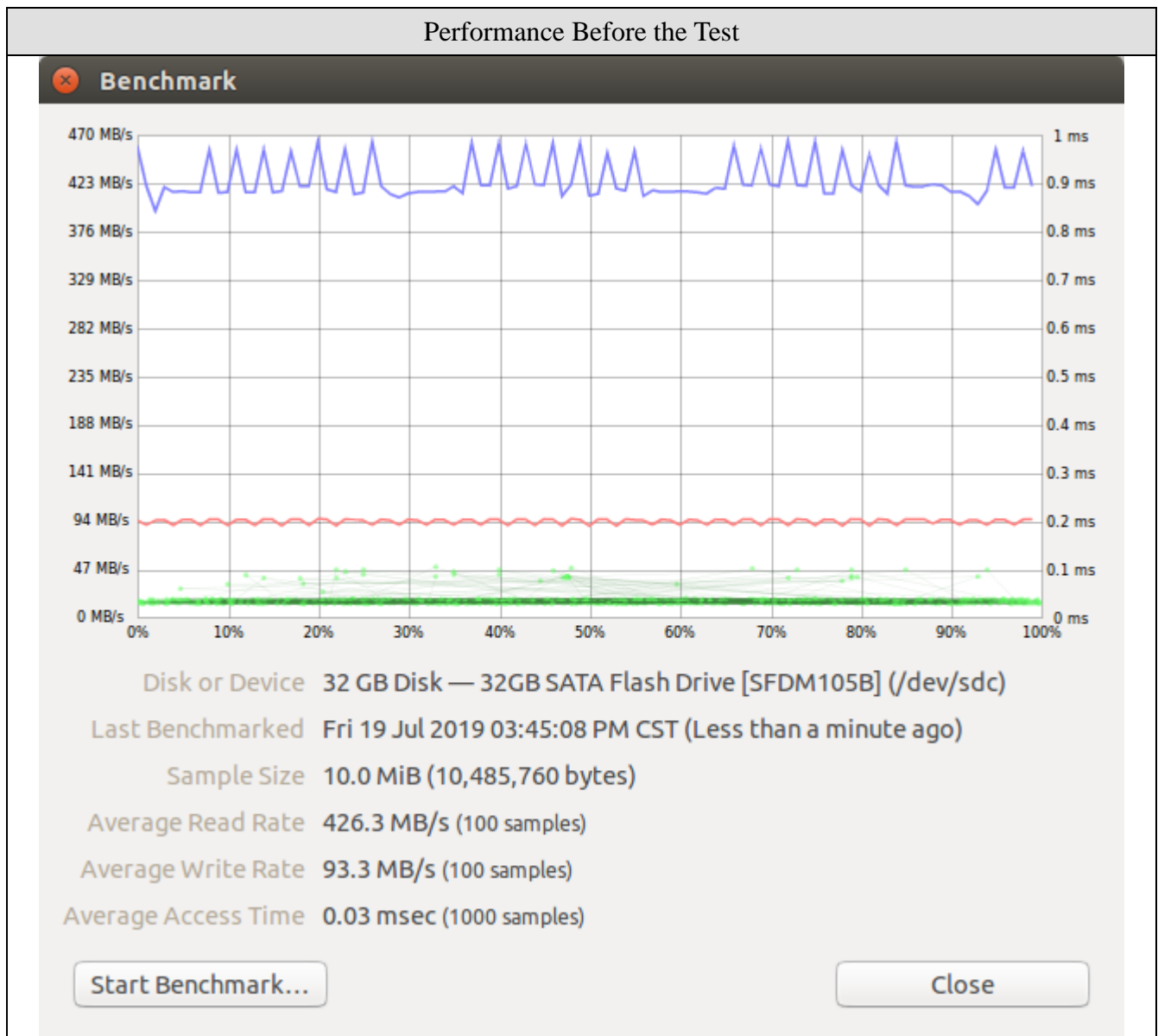
Testing Product	SM210-25 32GB	Testing Engineer	Alex Lin
Testing Environment	M/B: ASUS Z170-A	Chipset: Intel Z170 Interface: SATA III	BIOS: 2202
Testing Software	CrystalMark 5.0.2		

Test Function : BurnIn Test 168hrs			
Before		After	
All	5	1GiB	E: 0% (0/30GiB)
Seq Q32TI	Read [MB/s]	Write [MB/s]	
4K Q32TI	400.2	104.4	
Seq	196.1	103.9	
4K	371.8	104.2	
	37.49	103.3	
All	5	1GiB	E: 0% (0/30GiB)
Seq Q32TI	Read [MB/s]	Write [MB/s]	
4K Q32TI	409.4	104.4	
Seq	196.1	103.9	
4K	377.8	104.4	
	37.39	99.14	

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

Testing Product	SM210-25 32GB	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	Intel Z270	Gigabyte Z270-Gaming 5	SATA III	Win10	V
PC7	Intel Z170MX	Gigabyte Z170MX-Gaming5	SATA III	Win10	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 _____