

**Product Qualification**

**--- Compatibility Test ---**

**Product Name:** SDM6-M 7+15/180-W 32GB

**Product P/N:** 8Y.F1DG4.9T300BA

**Firmware Version:** SFPS928D

**Description:** SDM6-M 7+15/180-W 32GB

**Controller:** SRP40CB0

**Flash Type:** TC58TEG6DDLTA00 SDP 1CE 15nm

**Qualification:** Qual all

**Test Result:** PASS

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Alex Lin	2016/07/08	Alex Lin	Danny Chen	2016/07/08	Danny Chen

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## SUMMARY RESULT

		PC1	PC2	PC3	PC4						
Testing Product		SDM6-M 7+15/180-W 32GB									
System		Fedora kernel 3.3.4 -5 fc17 Windows Emb. 8.1 Industry Pro	Windows Emb. 8.1 Industry Pro								
M/B	Name	Z97X-UD3H	QM77-A1R								
	Vendor	Gigabyte	Avalue EMX								
	Chipset	Intel Z97	Intel QM77								
	Interface	SATA III	SATA III								
	BIOS	F9	V1.1.0								
<b>Test Result</b>											
Basic Function Test		V	V								
Burn In Test	Comp32	V	--								
	PassMark Burn In Test Pro V8.0	--	--								
	PassMark Burn In Test Pro V3.0.1007	V	--								
Warm Boot Test		V	--								
Cold Boot Test		--	V								
		--	--								
		--	--								
<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	V	V	V	V	V	V	V				
<b>Remark:</b>						Test Result — PASS					

## A. Function Test With M/B : Gigabyte Z97X-UD3H

<b>Testing Product</b>	SDM6-M 7+15/180-W 32GB	<b>Testing Engineer</b>	Alex Lin
<b>Testing Environment</b>	<b>M/B:</b> Gigabyte Z97X-UD3H	<b>Chipset:</b> Intel Z97 <b>Interface:</b> SATA III	<b>BIOS:</b> F9

### 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
Windows Emb. 8.1 Industry Pro	V	V	V	V	V	NA	V

### 2. Format Test

	FAT32	NTFS
Windows Emb. 8.1 Industry Pro	29.7GB	29.8GB

### 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

<b>Testing Product</b>	SDM6-M 7+15/180-W 32GB	<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
Windows Emb. 8.1 Industry Pro	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

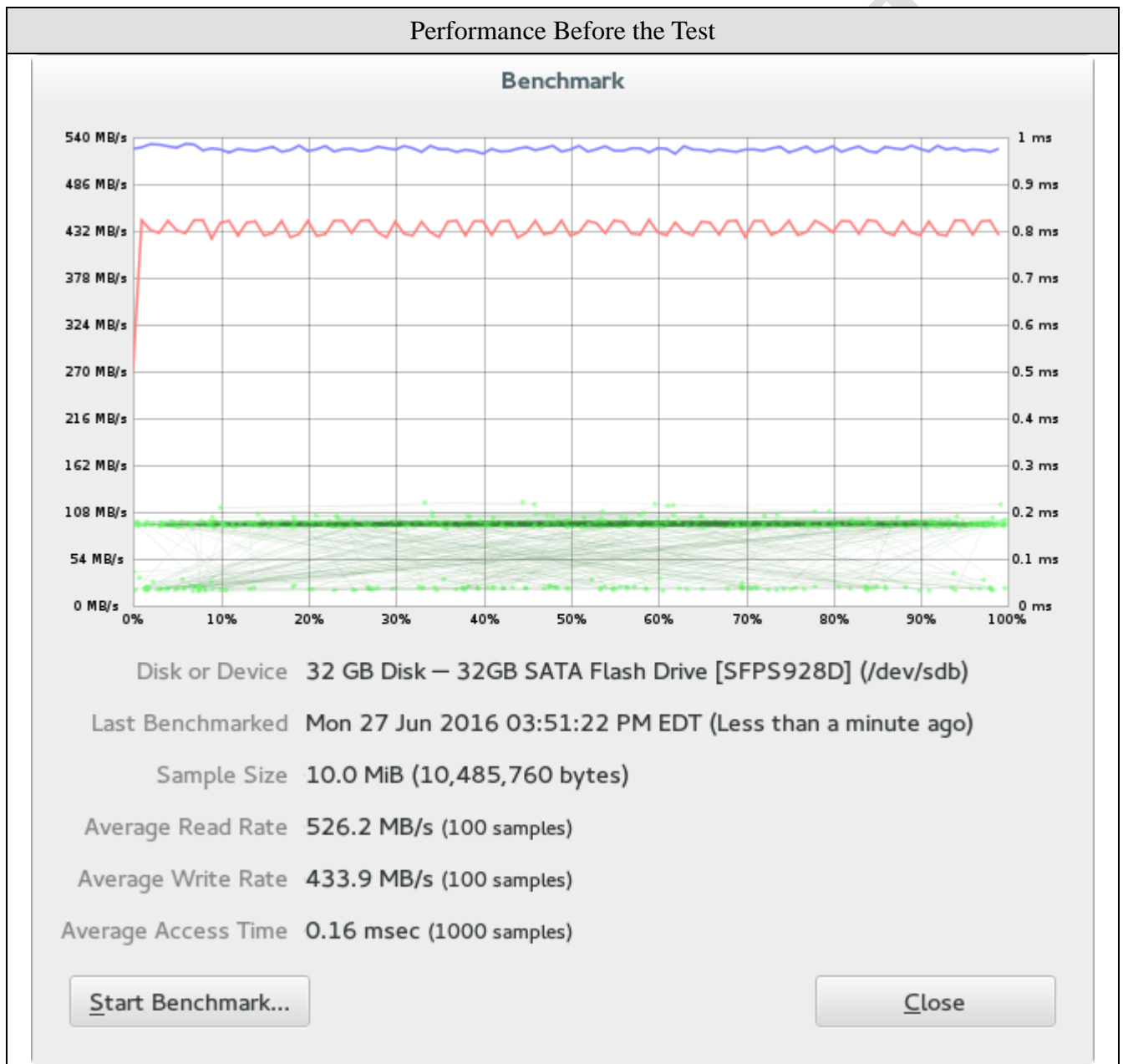
**C. Performance Test With M/B : Gigabyte GA-Z77X-D3H**

<b>Testing Product</b>	SDM6-M 7+15/180-W 32GB	<b>Testing Engineer</b>	Alex Lin
<b>Testing Environment</b>	M/B: Gigabyte GA-Z77X-D3H	Chipset: Intel Z77 Interface: SATA III	BIOS: F16
<b>Testing Software</b>	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>All</td> <td>468.1</td> <td>179.1</td> </tr> <tr> <td>Seq</td> <td>468.1</td> <td>179.1</td> </tr> <tr> <td>512K</td> <td>254.7</td> <td>143.5</td> </tr> <tr> <td>4K</td> <td>42.44</td> <td>79.11</td> </tr> <tr> <td>4K QD32</td> <td>161.9</td> <td>110.5</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	All	468.1	179.1	Seq	468.1	179.1	512K	254.7	143.5	4K	42.44	79.11	4K QD32	161.9	110.5	<table border="1"> <thead> <tr> <th></th> <th>Read [MB/s]</th> <th>Write [MB/s]</th> </tr> </thead> <tbody> <tr> <td>All</td> <td>479.3</td> <td>179.7</td> </tr> <tr> <td>Seq</td> <td>479.3</td> <td>179.7</td> </tr> <tr> <td>512K</td> <td>270.9</td> <td>140.9</td> </tr> <tr> <td>4K</td> <td>43.00</td> <td>85.39</td> </tr> <tr> <td>4K QD32</td> <td>161.9</td> <td>110.5</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	All	479.3	179.7	Seq	479.3	179.7	512K	270.9	140.9	4K	43.00	85.39	4K QD32	161.9	110.5
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D. Performance Test With M/B : Asus Maximus VI Hero

Testing Product	SDM6-M 7+15/180-W 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		



**E. Platform Compatibility Test**

Platform	Chipset	M/B	Interface	System	Result
PC1	Intel G35	Asus P5E-VM HDMI	SATA II	Win7	V
PC2	Intel P55	Asus P7P55D	SATA II	Win7	V
PC3	Intel H67	Gigabyte PH67A-D3-B3	SATA III	Win8.1	V
PC4	Intel Z68	Asus P8Z68-M Pro	SATA III	Win8.1	V
PC5	Intel Z77	Gigabyte IVB	SATA III	Win8.1	V
PC6	Intel Z87	Asus Maximus VI Hero	SATA III	Win8.1	V
PC7	Intel Z77	GA-Z77X-D3H	SATA III	Win8.1	V
PC8	Intel QM77	Avalue EMX QM77-A1R	SATA III	Win8.1	V
PC9	AMD 780G	Ausu M3A78-EM	SATA II	Win7	V
PC10	AMD 785G	Asus M4A785D-M Pro	SATA II	Win7	V
PC11	AMD 790FX	Asus M4A79T Deluxe	SATA III	Win8.1	V
PC12	AMD 790GX	Asus M4A78T-E	SATA III	Win8.1	V
PC13	AMD A88X	Asus A88XM-A	SATA III	Win8.1	V

**F. Additional Qualification:**

1. Environmental

- 1. RoHS Standard 2011/65/EU / PCRD005
- 2. Other Environmental Standard REACH / China RoHS
- 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 \_\_\_\_\_