

Product Qualification

--- Compatibility Test ---

Product Name: M.2 T42 P100-M 128GB
Product P/N: 86.A2GP2.4T3GC
Firmware Version: SFPS925A no DEVSLP
Description: M.2 T42 P100-M 128GB
Test Result: Pass

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Alex Lin	2016/03/14	Alex Lin	Danny Chen	2016/03/14	<i>Danny Chen</i>

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SUMMARY RESULT

		PC1	PC2	PC3	PC4						
Testing Product		M.2 T42 P100-M 128GB									
System		Windows Emb. Standard 7 Windows Emb. 8.1 Industry Pro	Fedora 17								
M/B	Name	Z170-HD3P	EMX QM77-A1R								
	Vendor	Gigabyte	Avalue								
	Chipset	Intel Z170	Intel QM77								
	Interface	SATA III	SATA III								
	BIOS	F4	V1.10								
Test Result											
Basic Function Test		V	V								
Burn In Test	Comp32	V	--								
	Iometer 2006.07.27RC3	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								
Power Failure Test		--	--								
		--	--								
Install System Test											
	Windows Emb. 7 Standard	Windows Emb. 8 Standard	Windows Emb. 8.1 Industry	Windows 10	Fedora 17	Ubuntu 12.04	Red Hat 6.3				
Result	V	V	V	V	V	V	V				
Remark:						Test Result — PASS					

A. Function Test With M/B : Gigabyte Z170-HD3P

Testing Product	M.2 T42 P100-M 128GB	Testing Engineer	Alex Lin
Testing Environment	M/B: Gigabyte Z170-HD3P	Chipset: Intel Z170 Interface: SATA III	BIOS: F4

1. Basic Function Test

	Copy	Delete	Restart	Compare	Suspend (S3)	Hibernate (S4)	LED
Windows Emb. Standard 7	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. Standard 7	--	59.6GB
Windows Emb. 8.1 Industry Pro	--	59.6GB

3. Burn In Test

	Comp32 15 hours	Iometer(2006.07.27-RC3) 15 hours	Burn In Test V8.0 Pro 168 hours
Windows Embedded Standard 7	V	V	V

4. Reboot Test

	Warm Boot 6000 Cycles
Windows Embedded Standard 7	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	M.2 T42 P100-M 128GB	Testing Engineer	Alex Lin
Testing Environment	M/B: Avalue Avalue EMX QM77-A1R	Chipset: Intel QM77 Interface: SATA III	BIOS: V1.10

1. Basic Function Test

	Copy	Delete	Restart	Compare	Suspend (S3)	Hibernate (S4)	LED
Fedora 17	V	V	V	V	V	V	V

2. Reboot Test

	Cold Boot 6000 Cycles
Fedora 17	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 17 System	V
Install Ubuntu 12.04 System	V
Install Red Hat 6.3 System	V

4. Test Result

Pass

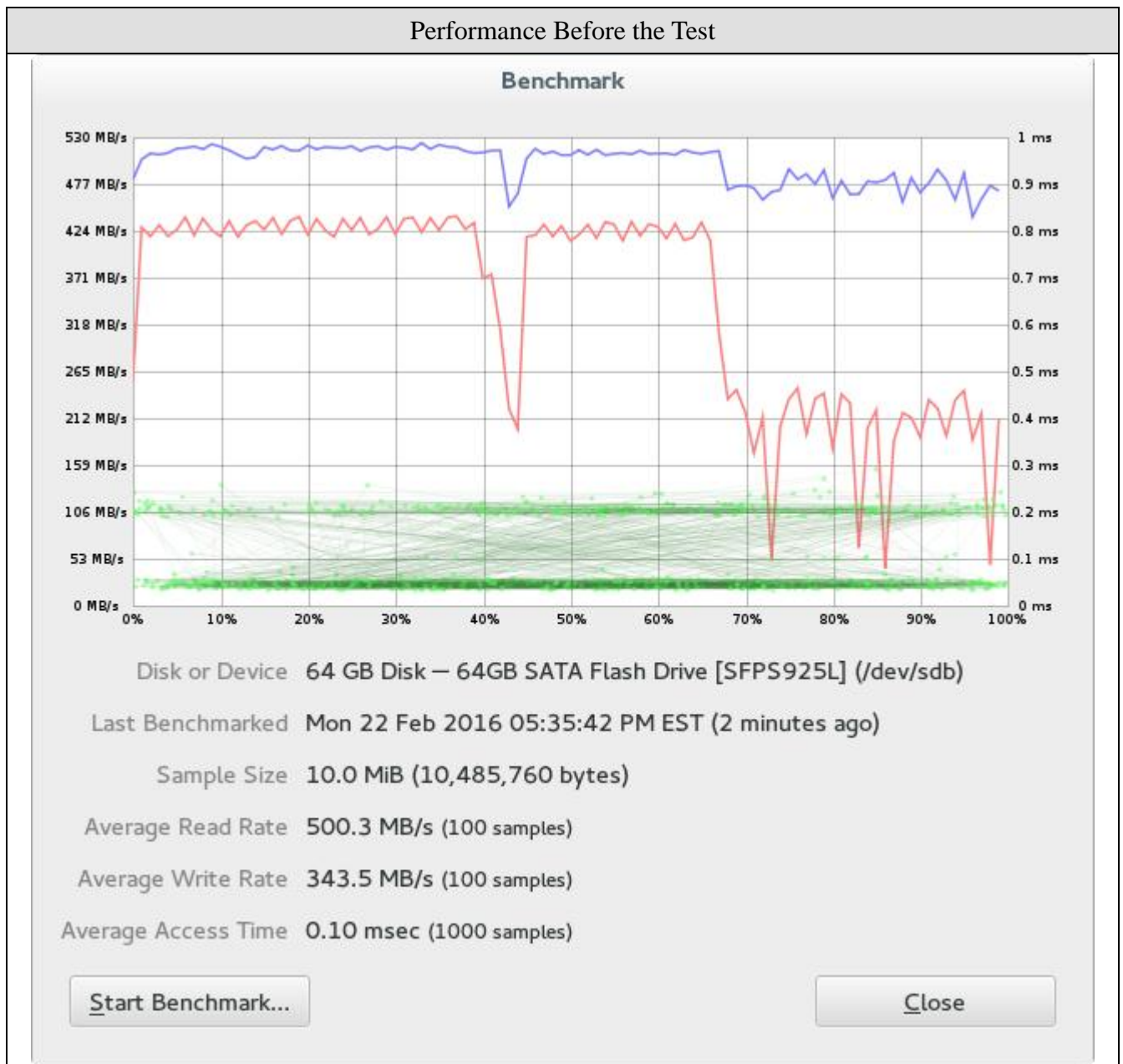
C. Performance Test With M/B : ASUS P8Z77-V PRO

Testing Product	M.2 T42 P100-M 128GB	Testing Engineer	Alex Lin
Testing Environment	M/B: ASUS P8Z77-V PRO	Chipset: Intel Z77 Interface: SATA III	BIOS: 1206
Testing Software	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>Seq</td> <td>522.1</td> <td>178.6</td> </tr> <tr> <td>512K</td> <td>222.1</td> <td>138.0</td> </tr> <tr> <td>4K</td> <td>37.85</td> <td>77.42</td> </tr> <tr> <td>4K QD32</td> <td>147.4</td> <td>93.03</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	Seq	522.1	178.6	512K	222.1	138.0	4K	37.85	77.42	4K QD32	147.4	93.03	<table border="1"> <thead> <tr> <th></th> <th>Read [MB/s]</th> <th>Write [MB/s]</th> </tr> </thead> <tbody> <tr> <td>Seq</td> <td>515.2</td> <td>170.0</td> </tr> <tr> <td>512K</td> <td>217.7</td> <td>133.1</td> </tr> <tr> <td>4K</td> <td>37.87</td> <td>76.01</td> </tr> <tr> <td>4K QD32</td> <td>146.8</td> <td>91.22</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	Seq	515.2	170.0	512K	217.7	133.1	4K	37.87	76.01	4K QD32	146.8	91.22
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D. Performance Test With M/B : Asus Maximus VI Hero

Testing Product	M.2 T42 P100-M 128GB	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 Information				Test Item					
Chipset	M/B	Interface	System	Format	Copy	Delete	Compare	Restart	Suspend
Intel G35	Asus P5E-VM HDMI	SATA II	Win7	V	V	V	V	V	V
Intel P55	Asus P7P55D	SATA II	Win7	V	V	V	V	V	V
Intel H67	Gigabyte PH67A-D3-B3	SATA II	Win8	V	V	V	V	V	V
Intel Z68	Asus P8Z68-M Pro	SATA II	Win8	V	V	V	V	V	V
Intel Z77	Gigabyte IVB	SATA II	Win7	V	V	V	V	V	V
		SATA III	Win7	V	V	V	V	V	V
Intel Z87	Asus Maximus VI Hero	SATA III	Win8.1	V	V	V	V	V	V
Intel Z77	GA-Z77X-D3H	SATA III	Win8	V	V	V	V	V	V
Intel QM77	Avalue EMX QM77-A1R	SATA III	Win8	V	V	V	V	V	V
AMD 780G	Ausu M3A78-EM	SATA II	Win7	V	V	V	V	V	V
AMD 785G	Asus M4A785D-M Pro	SATA II	Win7	V	V	V	V	V	V
AMD 790FX	Asus M4A79T Deluxe	SATA II	Win7	V	V	V	V	V	V
AMD 790GX	Asus M4A78T-E	SATA II	Win8.1	V	V	V	V	V	V
AMD A88X	Asus A88XM-A	SATA III	Win8.1	V	V	V	V	V	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 _____