

Product Qualification

--- Compatibility Test ---

Product Name: PCIe M.2 2280 512GB 1Tbx4

Product P/N: APP512G1AN-01TT

Firmware Version: SFPE721A(E7FM02.1)

Description: PCIe M.2 2280 512GB 1Tbx4

Controller: PS5007

Flash Type: TH58TFT0DDLBA8H

Qualification: Qual All

Test Result: PASS

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Martin Chiang	2016/10/20	<i>Martin Chiang</i>	Danny Chen	2016/10/20	<i>Danny Chen</i>

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SUMMARY RESULT

		PC1	PC2	PC3	PC4		
Testing Product		PCIe M.2 2280 512GB 1Tbx4					
System		Windows 10 Enterprise	Windows Embedded 8.1 Industry Pro				
M/B	Name	Z170-A	H97M-E				
	Vendor	ASUS	ASUS				
	Chipset	Intel Z170	Intel H97				
	Interface	SATA III	SATA III				
	BIOS	1702	2602				
Test Result							
Basic Function Test		V	V				
Burn In Test	Comp32	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				
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	V	V	V	V	V	V	V
Remark:		Test Result — PASS					

A. Function Test With M/B : Gigabyte GA-Z170X Gaming 3

Testing Product	PCIe M.2 2280 512GB 1Tbx4	Testing Engineer	Martin Chiang
Testing Environment	M/B: Gigabyte GA-Z170X Gaming 3	Chipset: Intel Z170 Interface: SATA III	BIOS: F5b

1. Basic Function Test

	Copy	Delete	Restart	Compare	Suspend (S3)	Hibernate (S4)	LED
Windows 10 Enterprise	V	V	V	V	V	V	V

2. Format Test

	FAT32	NTFS
Windows 10 Enterprise	--	447GB

3. Burn In Test

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

4. Reboot Test

	Warm Boot 6000 Cycles
Windows 10 Enterprise	V

5. Install System Test

Install System	Result
Windows Embedded Standard 7	V
Windows Embedded 8 Standard	V
Windows Embedded 8.1 Industry Pro	V
Windows 10 Enterprise	V
Windows 10 Multiple Edition	V

6. Test Result

Pass

B. Function Test With M/B : Asus H97M-E

Testing Product	PCIe M.2 2280 512GB 1Tbx4	Testing Engineer	Martin Chiang
Testing Environment	M/B: Asus H97M-E	Chipset: Intel H97 Interface: SATA III	BIOS: 2602

1. Basic Function Test

	Copy	Delete	Restart	Compare	Suspend (S3)	Hibernate (S4)	LED
Windows Embedded 8.1 Industry Pro	V	V	V	V	V	V	V

2. Reboot Test

	Cold Boot 6000 Cycles
Windows Embedded 8.1 Industry Pro	V

3. Install System Test

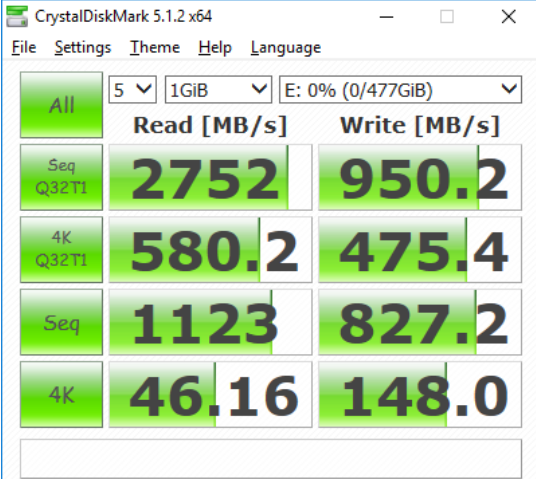
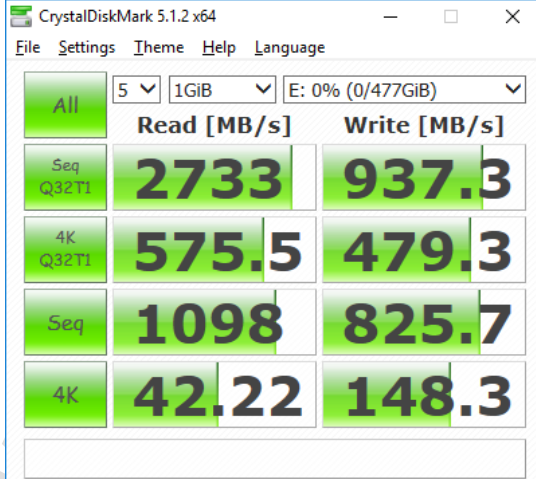
Install System	Result
Windows Embedded Standard 7	V
Windows Embedded 8 Standard	V
Windows Embedded 8.1 Industry Pro	V
Windows 10 Enterprise	V
Windows 10 Multiple Edition	V
Fedora kernel 3.3.4 -5	V
Ubuntu kernel 3.13.0 -32	V
Red Hat Kernel 2.6.32 -431.e16	V

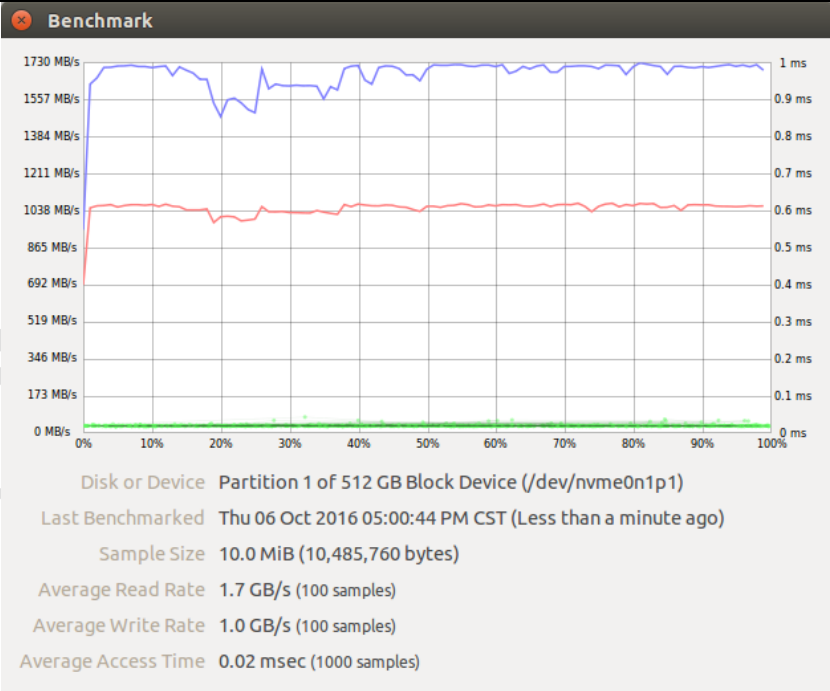
4. Test Result

Pass

C. Performance Test With M/B : Gigabyte GA-Z170X Gaming 3

Testing Product	PCIe M.2 2280 512GB 1Tbx4	Testing Engineer	Martin Chiang
Testing Environment	M/B: Gigabyte GA-Z170X Gaming 3	Chipset: Intel Z170 Interface: SATA III	BIOS: F5b

OS : Windows 10 / Performance Tool : CrystalDiskMark 5.1.2	
Before the Test	After the Test
	

OS : Ubuntu 15.01 / Performance Tool : Benchmark	
Performance Before the Test	
	

D. 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 _____

