

Product Qualification

--- Compatibility Test ---

Product Name: Industrial MicroSDHC R1-M 3.0 8GB ET

Product P/N: AP-MSD08GCE-1ADM

Firmware Version: 1288.3.0.8

Description: Industrial MicroSDHC R1-M 3.0 8GB ET

Controller: ITE ET1288

Flash Type: SNKD [1ynm]

PCB Version: _____

Qualification: Qual F/W

Test Result: Pass

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Alex Lin	2016/07/15	Alex Lin	Danny Chen	2016/07/15	<i>Danny Chen</i>

Table Of Content

SUMMARY RESULT 3

A. Function Test With M/B : Asus P8Z77-V PRO..... 4

 1. Basic Function Test 4

 2. Format Test..... 4

 3. Burn In Test 4

 4. Test Result 4

B. Performance Test With M/B : Asus P8Z77-V PRO..... 5

C. Additional Qualification: 6

 1. Environmental 6

 2. Certification..... 6

SUMMARY RESULT

		PC1	PC2	PC3	PC4	PC5				
Testing Product		Industrial MicroSDHC R1-M 3.0 8GB ET								
System		Windows 7 Windows 8								
M/B	Name	P8Z77-V PRO								
	Vendor	ASUS								
	Chipset	Intel Z77								
	Interface	USB3.0								
	BIOS	1206								
Test Result										
Basic Function Test		V	--							
Burn In Test	Comp32	V	--							
	Iometer 2006.07.27RC3	--	--							
	PassMark Burn In Test Pro V6.0.1018	V	--							
Warm Boot Test		--	--							
Install System Test										
	Windows CE	Windows XP-E	Windows Emb. 7 Standard	Windows Emb. 8.1 Industry	Windows XP	Windows 7	Windows 8.1	Fedora 17	Ubuntu 12.04	Red Hat 6.3
Result	--	--	--	--	--	--	--	--	--	--
Remark:							Test Result — PASS			

A. Function Test With M/B : Asus P8Z77-V PRO

Testing Product	Industrial MicroSDHC R1-M 3.0 8GB ET	Testing Engineer	Alex Lin
Testing Environment	M/B: Asus P8Z77-V PRO	Chipset: Intel Z77 Interface: USB3.0 -AM230 Reader	BIOS: 1206

1. Basic Function Test

	Copy	Delete	Restart	Compare	Suspend (S3)	Hibernate (S4)
Win 7	V	V	V	V	V	V
Win 8	V	V	V	V	V	V

2. Format Test

	FAT	FAT32	NTFS	exFAT
Win 7	--	7.19GB	7.20GB	7.20GB
Win 8	--	7.19GB	7.20GB	7.20GB

3. Burn In Test

	Comp32 15 hours	Burn In Test V8.0 Pro 168 hours
Win 7	V	V

4. Test Result

Pass

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

Testing Product	Industrial MicroSDHC R1-M 3.0 8GB ET	Testing Engineer	Alex Lin
Testing Environment	M/B: Asus P8Z77-V PRO	Chipset: Intel Z77 Interface: USB3.0	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>94.49</td> <td>24.83</td> </tr> <tr> <td>512K</td> <td>81.14</td> <td>23.06</td> </tr> <tr> <td>4K</td> <td>4.988</td> <td>1.266</td> </tr> <tr> <td>4K QD32</td> <td>4.895</td> <td>1.328</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	Seq	94.49	24.83	512K	81.14	23.06	4K	4.988	1.266	4K QD32	4.895	1.328	<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>94.51</td> <td>24.92</td> </tr> <tr> <td>512K</td> <td>81.23</td> <td>23.19</td> </tr> <tr> <td>4K</td> <td>4.991</td> <td>1.321</td> </tr> <tr> <td>4K QD32</td> <td>4.886</td> <td>1.273</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	Seq	94.51	24.92	512K	81.23	23.19	4K	4.991	1.321	4K QD32	4.886	1.273
	Read [MB/s]	Write [MB/s]																													
Seq	94.49	24.83																													
512K	81.14	23.06																													
4K	4.988	1.266																													
4K QD32	4.895	1.328																													
	Read [MB/s]	Write [MB/s]																													
Seq	94.51	24.92																													
512K	81.23	23.19																													
4K	4.991	1.321																													
4K QD32	4.886	1.273																													

C. Additional Qualification:

1. Environmental

- 1. RoHS Standard _____
- 2. Other Environmental Standard _____
- 3. WEEE (By Product) _____
- 4. Battery Standard _____
- 5. Packing Standard _____
- 6. Others _____

2. Certification

- 1. CE No. _____
- 2. FCC No. _____
- 3. BSMI No. _____
- 4. VCCC No. _____
- 5. C-tick No. _____
- 6. Other _____