

Product Qualification

--- Compatibility Test ---

Product Name: Industrial SDHC R1 3.0 8GB

Product P/N: AP-ISD008GIE-AAT

Firmware Version: 1288.3.0.7

Description: Industrial SDHC R1 3.0 8GB

Controller: ITE ET1288

Flash Type: TO 24nm SLC

PCB Version: _____

Qualification: Qual All

Test Result: Pass

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Gary Tsao	2016/08/16	Gary Tsao	Danny Chen	2016/08/16	<i>Danny Chen</i>

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SUMMARY RESULT

		PC1	PC2	PC3	PC4	PC5					
Testing Product		Industrial SDHC R1 3.0 8GB									
System		Windows 7	Windows 8								
M/B	Name	GA-F2A85XM--HD3	J1900I-C								
	Vendor	Gigabyte	ASUS								
	Chipset	AMD A85X	Intel J1900								
	Interface	USB3.0	USB2.0								
	BIOS	F3	0805								
Test Result											
Basic Function Test		V	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 : Gigabyte GA-F2A85XM--HD3

Testing Product	Industrial SDHC R1 3.0 8GB	Testing Engineer	Gary Tsao
Testing Environment	M/B: Gigabyte GA-F2A85XM--HD3	Chipset: AMD A85X Interface: USB3.0 –FCRHS4 Reader	BIOS: F3

1. Basic Function Test

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

2. Format Test

	FAT	FAT32	NTFS	exFAT
Win 7	--	7.21GB	7.15GB	7.21GB

3. Burn In Test

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

4. Test Result

Pass

B. Function Test With M/B : Asus J1900I-C

Testing Product	Industrial SDHC R1 3.0 8GB	Testing Engineer	Gary Tsao
Testing Environment	M/B: Asus J1900I-C	Chipset: Intel J1900 Interface: USB2.0 AM404 Reader	BIOS: 0805

1. Basic Function Test

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

2. Format Test

	FAT	FAT32	NTFS	exFAT
Win 8	--	7.21GB	7.15GB	7.21GB

3. Burn In Test

	Comp32 15 hours	Burn In Test V8.0 Pro 168 hours
Win 8	V	--

4. Test Result

Pass

C. Performance Test With M/B : Gigabyte GA-F2A85XM--HD3

Testing Product	Industrial SDHC R1 3.0 8GB	Testing Engineer	Gary Tsao
Testing Environment	M/B: Gigabyte GA-F2A85XM--HD3	Chipset: AMD A85X Interface: USB3.0 –FCRHS4 Reader	BIOS: F3
Testing Software	CrystalDiskMark 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>84.71</td> <td>56.49</td> </tr> <tr> <td>512K</td> <td>41.12</td> <td>27.04</td> </tr> <tr> <td>4K</td> <td>7.060</td> <td>3.433</td> </tr> <tr> <td>4K QD32</td> <td>7.563</td> <td>3.450</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	Seq	84.71	56.49	512K	41.12	27.04	4K	7.060	3.433	4K QD32	7.563	3.450	<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>84.58</td> <td>56.41</td> </tr> <tr> <td>512K</td> <td>41.12</td> <td>27.34</td> </tr> <tr> <td>4K</td> <td>7.133</td> <td>3.431</td> </tr> <tr> <td>4K QD32</td> <td>7.561</td> <td>3.444</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	Seq	84.58	56.41	512K	41.12	27.34	4K	7.133	3.431	4K QD32	7.561	3.444
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D. 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 _____ 2006/66/EC
- 5. Packing Standard _____ 94/62/EC
- 6. Others _____ CHINA RoHS MII#39

2. Certification

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