

## Product Qualification

### --- Compatibility Test ---

**Product Name:** Industrial microSDHC H1-M 8GB

**Description:** Industrial microSDHC H1-M 8GB

**Qualification:** Qual All

**Test Result:** Pass

APPROVAL					
QT	Date	Signature	Approved by	Date	Signature
Gary Tsao	2016/8/31	Gary Tsao	Danny Chen	2016/8/31	<i>Danny Chen</i>

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## SUMMARY RESULT

		PC1	PC2	PC3	PC4	PC5					
Testing Product		Industrial microSDHC H1-M 8GB									
System		Windows 10	Windows 7								
M/B	Name	Z170-A	AM1M-A								
	Vendor	ASUS	Asus								
	Chipset	Intel Z170	Build in AMD Sempron & Athlon-Series APUs								
	Interface	USB3.0	USB3.0								
	BIOS	1801	1601								
<b>Test Result</b>											
Basic Function Test		√	√								
Burn In Test	Comp32	√	--								
	PassMark Burn In Test V8.0 Pro	--	√								
Warm Boot Test		--	--								
Cold Boot Test		--	--								
<b>Install System Test</b>											
	Windows 10	Windows XP-E	Windows Emb. 7 Standard	Windows Emb. 8.1 Industry	Windows XP	Windows 7	Windows 8.1	Fedora 17	Ubuntu 14.04	Red Hat 6.3	
Result	--	--	--	--	--	--	--	--	--	--	
<b>Remark:</b>							Test Result — PASS				

## A. Function Test With M/B : Asus Z170-A

<b>Testing Product</b>	Industrial microSDHC H1-M 8GB	<b>Testing Engineer</b>	Gary Tsao
<b>Testing Environment</b>	M/B: Asus Z170-A	Chipset: Intel Z170 Interface: USB3.0	BIOS: 1801

### 1. Basic Function Test

	Copy	Delete	Restart	Compare	Suspend (S3)	Hibernate (S4)
Win 10	V	V	V	V	V	V

### 2. Format Test

	FAT	FAT32	NTFS	exFAT
Win 10	--	7.40GB	7.35GB	7.41GB

### 3. Burn In Test

	Comp32 15 hours	Burn In Test V8.0 Pro 168 hours
Win 10	V	--

### 4. Test Result

Pass

## B. Function Test With M/B : Asus AM1M-A

<b>Testing Product</b>	Industrial microSDHC H1-M 8GB	<b>Testing Engineer</b>	Gary Tsao
<b>Testing Environment</b>	<b>M/B:</b> Asus AM1M-A	<b>Chipset:</b> Build in AMD Sempron & Athlon-Series APUs <b>Interface:</b> USB3.0	<b>BIOS:</b> 1601

### 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	--	7.40GB	7.35GB	7.41GB

### 3. Burn In Test

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

### 4. Test Result

Pass

## C. Performance Test With M/B : Asus Z97-PRO

<b>Testing Product</b>	Industrial microSDHC H1-M 8GB	<b>Testing Engineer</b>	Gary Tsao
<b>Testing Environment</b>	M/B: Asus Z97-PRO	Chipset: Intel Z97 Interface: USB3.0	BIOS: 0603
<b>Testing Software</b>	CrystalMark 5.0.2		

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>44.78</td> <td>25.95</td> </tr> <tr> <td>Seq Q32T1</td> <td>44.78</td> <td>25.95</td> </tr> <tr> <td>4K Q32T1</td> <td>10.25</td> <td>1.351</td> </tr> <tr> <td>Seq</td> <td>44.88</td> <td>25.80</td> </tr> <tr> <td>4K</td> <td>8.777</td> <td>1.417</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	All	44.78	25.95	Seq Q32T1	44.78	25.95	4K Q32T1	10.25	1.351	Seq	44.88	25.80	4K	8.777	1.417	<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>44.96</td> <td>25.35</td> </tr> <tr> <td>Seq Q32T1</td> <td>44.96</td> <td>25.35</td> </tr> <tr> <td>4K Q32T1</td> <td>10.46</td> <td>1.403</td> </tr> <tr> <td>Seq</td> <td>44.88</td> <td>24.32</td> </tr> <tr> <td>4K</td> <td>8.913</td> <td>0.760</td> </tr> </tbody> </table>		Read [MB/s]	Write [MB/s]	All	44.96	25.35	Seq Q32T1	44.96	25.35	4K Q32T1	10.46	1.403	Seq	44.88	24.32	4K	8.913	0.760
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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.  VCCI No. \_\_\_\_\_
- 5.  C-tick No. \_\_\_\_\_
- 6.  Other \_\_\_\_\_