

# DASH7E1

## Rugged Tablet Computer

### P5 Test Report

Summary	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation (Comment: _____)
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Issue date	Approval	Test Engineer
2015/12/22	KJ Wang	Anderson Lin

## Platform Information

Item	Device Information	Test Item
System Model/Version	DASH7E1 V0.3	1,2,3,4
BIOS / Version	DASH7E1 Rev 0.1.9(11/11/2014)	1,2,3,4
EC Firmware Version	0.5.4	1,2,3,4
CPU Type	Intel Atom Z2760 1.80GHz(Clover Trail)	1,2,3,4
Memory Type	LPDDR2 / 2GB	1,2,3,4
Storage	64GB eMMC	1,2,3,4
LVDS	7" WXGA (1280 x 800) TFT LCD	1,2,3,4
Operating System	Windows Embedded 8.1 Industry Pro 32-bit	1,2,3,4
Power Supply	DC Adapter : LTE24E-S2-2 output : 12V, 2A	1,2,3,4
Battery Model	Lithium-Polymer high capacity battery	1,2,3,4

# 1. Basic Function Test

## 1.1. Video Function Test

Video Function	Function			Note
	Pass	Fail	N/A	
Resolution change	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1280 X 800 / 1024 X 768
Display quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No shift ,flicker
Playback 1080p video	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## 1.2. Audio Function Test

Audio Function	Function			Note
	Pass	Fail	N/A	
Internal Speaker	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Internal Microphone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Headphone jack	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Left channel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Right channel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## 1.3. Wi-Fi Function Test

Wi-Fi Function	Function			Note
	Pass	Fail	N/A	
Connect to internet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Download files from internet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SpeedTest	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Download speed:4.4 Mbps Upload speed:3.48 Mbps
Enable / Disable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## 1.4. 3G Function Test

3G Function	Function			Note
	Pass	Fail	N/A	
Enable / disable	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No provide
Connect to internet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No provide

## 1.5. Bluetooth Function Test

Bluetooth Function	Function			Note
	Pass	Fail	N/A	
Bluetooth keyboard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Microsoft Mobile 5000
Bluetooth mouse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Logitech M557
Send files	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10 MB media file
Receive files	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10 MB media file

## 1.6. GPS Function Test

GPS Function	Function			Note
	Pass	Fail	N/A	
Cold start	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Warm start	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Hot start	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## 1.7. NFC Function Test

NFC Function	Function			Note
	Pass	Fail	N/A	
Detect NFC tag	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Detect NFC card	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## 1.8. USB Function Test

USB Function	Function			Note
	Pass	Fail	N/A	
USB Flash	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB Floppy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB HDD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB ODD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB Keyboard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
USB Mouse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## 1.9. Touch Screen Function Test

Touch Screen Function	Function			Note
	Pass	Fail	N/A	
Touch Screen Function	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Multi-Touch(4 points)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## 1.10. Camera Function Test

OSD Control Function	Function			Note
	Pass	Fail	N/A	
2 MP front camera(front)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8 MP auto-focus rear camera(rear)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
take picture	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Video record	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## 1.11. MicroSD Function Test

MicroSD Function	Function			Note
	Pass	Fail	N/A	
Read / write test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Transcend 64GB

## 1.12. Sensor Function Test

Sensor Function	Function			Note
	Pass	Fail	N/A	
G-sensor(Accelerometer)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E-Compass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Gyroscope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Magnetometer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## 1.13. UI Function Test

UI Function	Function			Note
	Pass	Fail	N/A	
Airplane Mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Safe Mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	msconfig

## 2. BIOS Function Test

### 2.1. Boot Sequence Test

Test Item	Result			Note
	Pass	Fail	N/A	
Floppy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hard Disk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Removable (All Device Priority)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
CDROM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
USB HDD	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
USB Floppy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
USB CD-ROM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
LAN [ Boot From LAN First ]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Disable	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Check "Halt on" item – All error but K/B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### 2.2. ACPI Function Test

Test Item	Result			Note
	Pass	Fail	N/A	
Sleep mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Restart	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shutdown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

### 2.3. Power On after Power Failure Test

Test Item	Result			Note
	Pass	Fail	N/A	
Off	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
On	Under Dos	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Under Windows(Normal Shutdown)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Under Windows(Abnormal Shutdown)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Last State	Under Dos	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Under Windows(Normal Shutdown)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Under Windows(Abnormal Shutdown)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### 2.4. AAEON Tag Check Utility

Test Item	Result			Note
	Pass	Fail	N/A	
Check AAEON BIOS OK	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AONCHECK.EXE

### 2.5. TPM Function Test

Test Item	Result	Note
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	Pass	Fail	N/A	
Check the status of the TPM device in Windows Device Manager	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trusted Platform Module 2.0 and Security Clover Trial Engine Driver icons appear (with no yellow bang) under the Security devices.
Check the status of TPM in the TPM Management Console	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Type "tpm.msc" to open the console: TPM should be "ready for use" as shown in the following figure.
Bitlocker Encryption	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Open Run window, type gpedit.msc and click OK to open the Local Group Policy Editor

## 2.6. IAMT Function Test

Test Item	Result			Note
	Pass	Fail	N/A	
IAMT Function	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

## 2.7. Supervisor / User Password Test

Test Item	Result			Note
	Pass	Fail	N/A	
Supervisor Password	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
User Password	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## 2.8. PC Health Status

Test Point: The value between Actual Voltage and Voltage Monitor must be + /- 5%

Voltage Monitoring Test	Result			BIOS (V)	Note
	Pass	Fail	N/A		
CPU VCore	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
1.5V	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
3.3Vcc	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
VBAT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
5V	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
DDR	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		RPM
CPU Fan 0 Speed	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		RPM
CPU Temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
SB Temperature.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

## 3. Performance Test

### 4.1. Performance Test

Test Result: (Display set 1280X 800)

Testing Software	Scope	Note
<b>PCMark05</b>		
PCMark	N/A	PCMarks
CPU	2137	
Memory	1995	
Graphics	425	
HDD	4723	

Testing Software	Scope	Note
<b>3Dmark2003 v360</b>		
3Dmark Score	1611	
CPU Score	281	
Benchmark (A)	-	
<b>3Dmark06 v120</b>		
3Dmark Score	356	
CPU Score	536	
SM 2.0	135	
HDR/SM 3.0	116	

## 4. Overnight Test

### 6.1. Overnight Test (over 12 hours)

Test Item	Result			Note
	Pass	Fail	N/A	
Burn In Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	V7.1 Pro(32 bit)
Playback 1080p video	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	