

Operating Shock Test Report

Issue by Certification Center

Product Model	5.7" Rugged Handheld Device : R05I98H-RTD1
Product Description	Rugged Handheld Device
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> Rugged Handheld Device <input type="checkbox"/> Renew product <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Revision change <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Component:

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Issue date

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Approved

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Test Engineer

1. Document Introduction

This document describes how we conduct the environment conditions and test procedure. It includes the test equipment we use, the test condition, and the test procedure we take. We also define our test criteria and the way to conclude the test result.

(According to client's test specification, please see following sheets in detail.)

Table of Testing Summary Results

NO	Test Item	Condition Description	Sect. / Page	Reference to
1	Vibration Test	Operating Pulse shape: Sawtooth Impact acceleration: 40g , Pulse duration: 11 ms , Axis of vibration: Transverse-X, Longitudinal-Y, Vertical-Z Number of shocks: one shock for each of the six faces , Total 18 Shocks	4 / 5	MIL-STD-810F Method 516.5 Procedure I Table 516.5-II

2. Product Configuration

1. M/B : Winmate I98H5-110
2. CPU : Intel® Atom™ Processor Z510 @ 1.10 GHz
3. Chipset : Intel US15W
4. RAM : Transcend TS128MSQ64V6U SODIMM DDR2-667 1GB
5. SSD : PQI D10080G57RW01A70 MiniPCIe PATA SSD 8G MLC
6. Panel : DataImage 050722DSSWDG01 640x480
7. Battery : FSP RTB-057HH Li-Ion Battery 2S1P 7.4V 2600mAh x 2
8. Bluetooth : Q-COM Bluetooth QBT400-USB01p
9. 3G : HUAWEI EM770W HSPA Module
10. GPS : u-blox LEA-6S GPS Module
11. Wifi : Wi2Wi W2SW0001 WLAN SIP 802.11b/g
12. Adapter : EDAC EA1050C-120 / AC IN 100-240V~1.8A,50-60Hz / DC OUT 12V,4.16A
13. Hot Tab / EC : 205_H5 / 212

3. Shock Test (Operating)

A. Test Equipment:

- Test Site: SGS LAB
- Shock Testing System: LANSMONT / 65-81 TTSII
- Data Acquisition & Analysis System: LANSMONT / 1033570-2-B
- ICP Accelerometer: PCB / 353B14

B. LAB Environmental Conditions:

- Ambient Temperature: 25 +/- 3°C
- Relative Humidity: 55 +/- 20% RH

C. Test Method / Specification :

- Reference to MIL-STD-810F Method 516.5 Testing Procedures
- Procedure I / Table 516.5II
- Sample Condition: Operating
- Pulse shape: Sawtooth
- Impact acceleration: 40g
- Pulse duration: 11 ms
- Axis of vibration: Transverse-X, Longitudinal-Y, Vertical-Z
- Number of shocks: one shock for each of the six faces
- No. of Shock: 3 Shocks / face (Total 18 shocks)
- Quantity: Total 1 Set
- Testing Period: Aug. 29, 2011 to Aug. 29, 2011

D. Check Condition and Requirements:

The equipment ,in its operation shock mode, Sawtooth waveform,40g 11ms duration and one shock for each of the six faces & the cycle is 3 times (Total 18 shocks) on testing. Must be free of mechanical structure, operational, functional and the display of key parts have to be normal. Document the result during the test. The functional and electrical check is required, document the result after the check.

E. Test Result:

Examine the appearance of specimen(s) by visual check and perform functional check after this test.
 Connect the specimen with rated power then examine whether the display function of specimen could be work normally or not.

- Functional Check & Mechanical Structure: Normal
- Appearance check (Visual check): No visible damage

F. Test Judgment:

— Test Result as below:

Check Item Style Item No.	Appearance check (Visual check)		Functional & Performance check
	Initial	Final	
5.7" Rugged Handheld Device: R05I98H-RTD1	No visible damage	No visible damage	Normal