Operating Vibration Test Report

Issue by

Design Technology Department

Product Model	**Panel PC : WMRM1500HBV2**
Product Description	**Panel PC**
Test Reason	■New product ■Panel PC ☐Renew product ☐PCB : ☐BIOS: ☐ Revision change ☐PCB : ☐BIOS: ☐Component:

2014/07/08	*David Chen*	*Peter Chou*
Issue date	Approved	Test Engineer

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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**	Operation Random vibration: 5 Hz ~ 500 Hz Impact acceleration: 1.48 & 1.90 & 2.24 g rms Axis of vibration: Transverse-X, Longitudinal-Y, Vertical-Z Duration time: each axis 60 min.	3 / 4	**MIL-STD-810G** **Method 514.6** **Procedure I** **Figure 514.6C-3**

2. Product Configuration

1. M/B：IB32-120
2. CPU：Intel BayTrail N2930 1.83GHz BGA1170
3. RAM：ADATA SODIMM DDR3L-1600 4GB
4. SSD：PHISON mSATA3 SSD 64GB
5. Panel：Innolux / G150XGE-L05 (SHUNG JU) / 1024x768
6. Driver Board：DB04-110
7. Touch Control Board：PM1102S-310 5W RS232
8. Touch：B150N18AG35-07
9. Terminal Block Board：T3P01-230
10. OSD Control Board：MIOSD-120
11. Power Module：IRTPS-220C / 9~36Vin 12Vout 100W Isolation

3. Vibration Test (Operating)

A. Test Equipment:

— Vibration Tester: King Design / EM-600F2K-50N120 (S/N: BT103176796)
— Controller: Dactron Photon PH-100 RT-PRO (S/N: 4750143)
— Control Accelerometer: B&K 4398A (S/N: 2169071)

B. LAB Environmental Conditions:

— Ambient Temperature: 25 +/- 3℃
— Relative Humidity: 55 +/- 20% RH

C. Test Method / Specification:

— Compliance of MIL-STD-810G/Method 514.6/Procedure I / Figure 514.6C-3
— Operation
— Random vibration: 5 Hz ~ 500 Hz
— Impact acceleration: 1.48 & 1.90 & 2.24 g rms
— Axis of vibration: Transverse-X, Longitudinal-Y, Vertical-Z
— Duration time: each axis 60 min.
— Total Time: 3 hours
— With Adapter
— Quantity: Total 1 Set
— Testing Period: Jul. 4, 2014 to Jul. 4, 2014

D. Check Condition and Requirements:

Place the product on the vibration table in its normal operating orientation and configuration. The Product shall be no fixture to the vibration table such that the vibratory input is transmitted directly to the product. Operating the product during the test. Vibrate the product up the frequency range at a rate of 5 to 500 Hz. At the appropriate level in the table of test condition in each of three orthogonal axes. The test shall last approximately 60 minutes per axis. Equivalent to 1.48 & 1.90 & 2.24 g. Document the result during the test. The functional and electrical check is required; document the result after the check.

E. Test Result:

— No visible damage to the product.

— No displacement of components, cables, or hardware.

— The exterior container must not be broken exposing the contents.

— The test unit operates normally after the completion of the vibration test.

F. Test Judgment:

— Test Result as below:

Check Item / Style Item No.	Appearance check (Visual check)		Functional & Performance check
	Initial	Final	
Panel PC : WMRM1500HBV2	No visible damage	No visible damage	Normal

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