



Test Report

No.: SZRL2011120038

Date: Dec.22, 2011

Page 1 of 9

DARVEEN TECHNOLOGY LTD.

ROOM 7F, WEST 210 BUILDING, NO.4 TAIRAN ROAD., CHEGONG MIAO, FUTIAN DISTRICT, SHENZHEN, CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description: Industrial Mobile Computer

Style/Item No.: VT-835-XXXXX

Manufacture: Darveen Technology Ltd.

Quantity: 2 PCS

Sample receiving Date: Dec.12, 2011

Test period: Dec.14, 2011 to Dec.22, 2011

Test Requested: 1.High and Low Temperature Test
2. Random Vibration Test
3. Mechanical Shock Test

Test Method: Refer to IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-64:2008, MIL-STD-810G: 2008 method 516.6 procedure I and client's requirements.

For further details, please refer to the following page(s)

Test Result(s): For further details, please refer to the following page(s)

Signed for and on behalf of

SGS-CSTC Ltd.

Reliability Lab

Kevin Yi

Engineer

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Member of the SGS Group (SGS SA)

**1. High and Low Temperature Test:****1.1 Test Method/ Specification or Clients' Requirement:**

a) Test Method/Specification:

Refer to IEC 60068-2-1:2007, IEC 60068-2-2:2007 and client's requirements.

Test Condition:

Step 1: High Temperature Operating Test

- A. Sample Status: Operating the program: Burnintest
B. Test Temperature: 70°C
C. Test Duration: 8 hours

Step 2: Low Temperature Operating Test

- A. Sample Status: Operating the program burnintest after 1 hour
B. Test Temperature: -30°C
C. Test Duration: 8 hours

Step 3: Cold Start Test

- A. Sample Status: Non-Operating
B. Test Temperature: -30°C
C. Test Duration: 2 hours
D. Test Method:

1	System power on after two hours later;
2	System power off, then 10 minutes later, system power on;
3	Repeat step 2 five times;

b) Appearance and Function Inspection:

Appearance inspection should be done before and after test by SGS.

Function inspection should be done before and after test by SGS.

1.2 Sample(s) Inspection before Test:

- Sample(s) Description: Industrial Mobile Computer
Quantity: 2PCS
Appearance Inspection: No visual damage was found on samples before test.
Function Inspection: The function of samples was normal before test.

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1.3 Test Result:

Sample No.	Test Step	Appearance and Function Inspection
#1 ~ #2	1	No visual damage was found on samples after test. The function of samples was normal during and after test.
	2	No visual damage was found on samples after test. The function of samples was normal during and after test
	3	No visual damage was found on samples after test. The function of samples was normal after test

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1.4 Test Photos:



Fig. 1 Samples before test



Fig. 2 Samples after test



Fig. 3 Samples before test



Fig. 4 Samples after test



Fig. 5 Samples in the chamber

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2. Random Vibration Test

2.1 Test Method/ Specification or Clients' Requirement:

a) Test Method/Specification:

Refer to IEC 60068-2-64:2008 and client's requirements.

Test Condition:

Frequency range: 5~500Hz
Vibration Orientation: X, Y and Z axis
Vibration Duration: 1 hour/axis, total 3 hours

Vibration parameter table:

Frequency (Hz)	ASD (g^2/Hz)
5	0.0018
500	0.0018
Equivalent to 1 g_{rms}	

b) Appearance and Function Inspection:

Appearance inspection should be done before and after test by SGS.

Function inspection should be done before and after test by SGS.

2.2 Sample(s) Inspection before Test:

Sample(s) Description: Industrial Mobile Computer
Quantity: 2PCS
Appearance Inspection: No visual damage was found on samples before test.
Function Inspection: The function of samples was normal before test.

2.3 Test Result:

Sample No.	Appearance And Function Inspection
#1 ~ #2	No visual mechanical damage was found after test. No crashes and power outages were found after test. The samples could be rebooted normally after test.

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2.4 Test Photos:



Fig.7 Samples before test



Fig.8 Samples after test



Fig.9 Vibration test - X axis



Fig.10 Vibration test - Y axis



Fig.11 Vibration test - Z axis

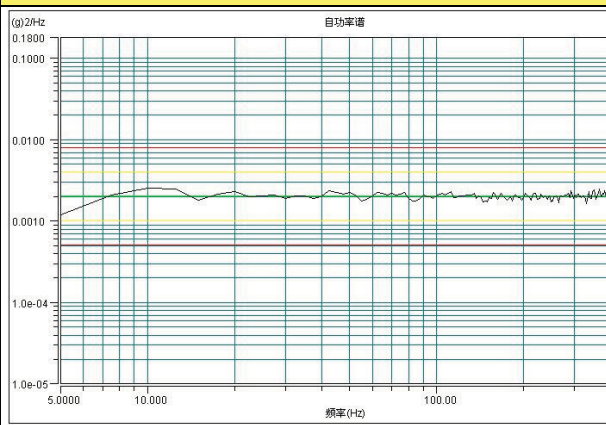


Fig.12 Random Vibration Spectrum

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3. Mechanical Shock Test

3.1 Test Method/ Specification or Clients' Requirement:

a) Test Method/Specification:

Refer to MIL-STD-810G: 2008 Method 516.6 and client's requirement.

Test Condition:

Shock waveform:	Half-sine Waveform
Acceleration:	30G
Pulse Duration:	11ms
Shock direction:	$\pm X$, $\pm Y$, $\pm Z$ axes
Shock times:	3times/direction

b) Appearance and Function Inspection:

Appearance inspection should be done before and after test by SGS.

Function inspection should be done before and after test by SGS.

3.2 Sample(s) Inspection before Test:

Sample(s) Description:	Industrial Mobile Computer
Quantity:	2 PCS
Appearance Inspection:	No visual damage was found on samples before test.
Function Inspection:	The function of samples was normal before test.

3.3 Test Result:

Sample No.	Appearance And Function Inspection
#1 ~ #2	<p>No visual mechanical damage was found after test.</p> <p>No crashes and power outages were found after test.</p> <p>The samples could be rebooted normally after test.</p>

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3.4 Test Photos:



Fig.13 Samples before test



Fig.14 Samples after test



Fig.15 Shock test- Z axis



Fig.16 Shock test- -Z axis



Fig.17 Shock test- Y axis



Fig.18 Shock test- -Y axis

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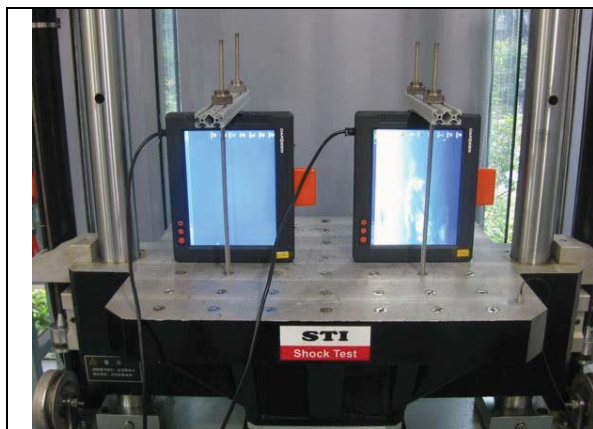


Fig.19 Shock test- X axis

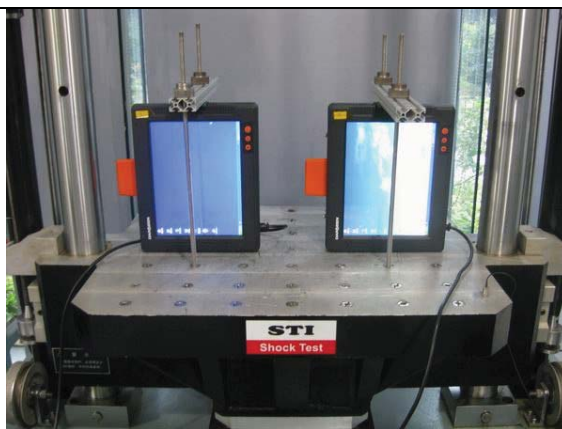


Fig.20 Shock test- -X axis

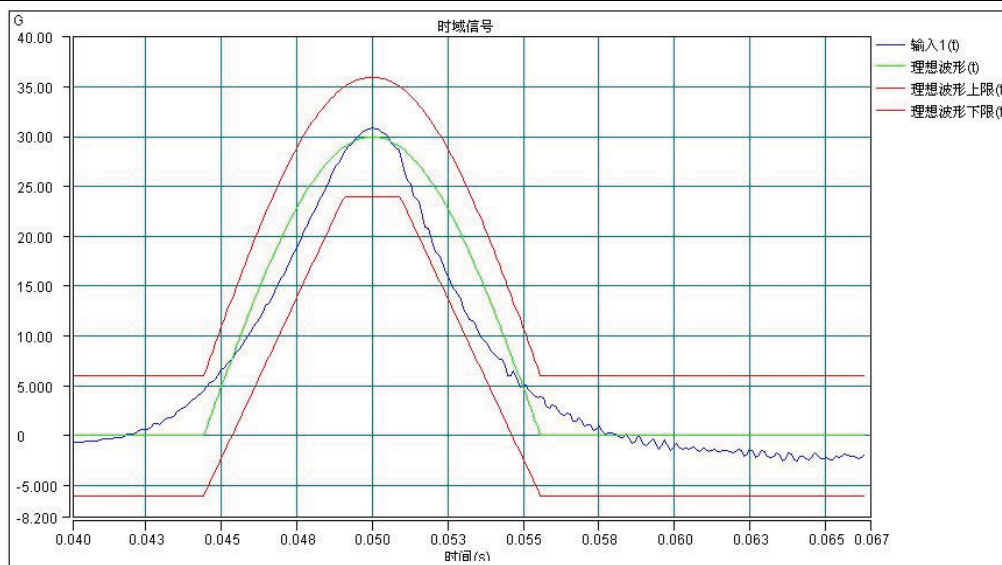


Fig.21 Shock Spectrum (30G, 11ms)

End of Report

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