

TEST REPORT

Report No.: HC60092E/2017

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Date: October 24, 2017

VECOW CO., LTD.
12F., NO. 111, ZHONGCHENG RD., TUCHENG DIST.,
NEW TAIPEI CITY, TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: BOX PC
Style/ Item No.: ECS-9210-700/ No.1, No.2, No.3
Quantity: Total 3 sets
Testing Period: Jun. 9, 2017 to Oct. 13, 2017

We have tested the submitted sample(s) as requested and the following results were obtained:

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

1. Low Temperature Test
2. High Temperature/ Humidity Test
3. Operating Random Vibration Test
4. Operating Mechanical Shock Test

Test Results : -PLEASE SEE ATTACHED SHEETS-

*HC60092/2017, dated on October 20, 2017, is hereby canceled and replaced by HC60092E/2017.

Signed for and on behalf of
SGS TAIWAN Ltd.



Hank Chiou
Supervisor

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1. Low Temperature Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	KSON	THS-A6T-150	A0494

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Method/ Specification:

Test method: IEC 60068-2-1, Edition 6.0: 2007, and client's request.

Sample condition: Operating (execute Burn-In Test)

Test temperature: -40°C

Test duration: 16 hours

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then execute test program "Burn-In Test" while performing functional check.

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Specimen:

Style/ Item No.: ECS-9210-700/ No.1

Quantity: Total 1 set

Test Result:

Check Item Style/Item No.	Appearance Check (Visual Check)	Functional check
ECS-9210-700/ No.1	No visible damage	Normal

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2. High Temperature/ Humidity Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	KSON	THS-D6S-150	4085

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Method/ Specification:

Test Method: IEC 60068-2-78, Edition 2.0:2012 and client's request

Sample Condition: Operating (execute Burn-In Test)

Test temperature: 80°C

Test humidity: 95%RH

Test duration: 16 hours

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then execute test program "Burn-In Test" while performing functional check.

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Specimen:

Style/ Item No.: ECS-9210-700/ No.2

Quantity: Total 1 set

Test Result:

Check Item Style/Item No.	Appearance Check (Visual Check)	Functional check
ECS-9210-700/ No.2	No visible damage	Normal

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3. Operating Random Vibration Test:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	King Design	EM-800F2K-50N120	RU104080389
Controller	Dactron	COMET 200	10539718
Control Accelerometer	WR	793-6	A4938

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Method/ Specification:

Test method: IEC 60068-2-64, Edition 2.0: 2008

Sample condition: Operating (execute "BurnIn Test")

Wave form: Random

Frequency: (5 ~ 500) Hz

Frequency (Hz)	Left Slope (dB/Oct.)	PSD (G^2/Hz)	Right Slope (dB/Oct.)
5	—	0.05	0
500	0	0.05	—
⇔ equivalent to 5.0 G_{rms}			

Direction: X, Y, Z axes (see photo 7 ~ 9)

Duration: 30 minutes/ axis

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program "BurnIn Test" could work normally or not.

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Specimen:

Style/ Item No.: ECS-9210-700/ No.3

Quantity: Total 1 set

Test Result:

Check Item Style/Item No.	Appearance Check (Visual Check)	Functional check
ECS-9210-700/ No.3	No visible damage	Normal

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4. Operating Mechanical Shock Test:

Test Equipment:

Name	Brand	Model	Serial No.
Shock Test System	LANSMONT	65-81 TTSII	M-13418
Data Acquisition & Analysis System	LANSMONT	103570-2-B	0503-73
ICP Accelerometer	PCB	353B14	79347

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Method/ Specification:

Test Method: IEC 60068-2-27, Edition 4.0: 2008

Sample condition: Operating (execute "BurnIn Test")

Pulse shape: Half-sine

Acceleration: 50 G

Pulse duration: 11 ms

Shock direction: 6 faces ($\pm X$, $\pm Y$, $\pm Z$ axes, see photo 10 ~ 15)

No. of shock: 3 shocks/ axis (total 18 shocks)

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then examine the test program "BurnIn Test" could work normally or not.

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Specimen:

Style/ Item No.: ECS-9210-700/ No.3




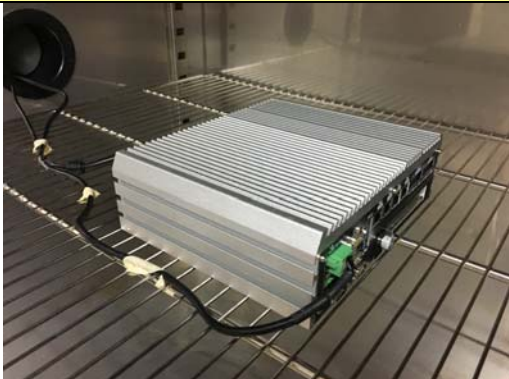


Quantity: Total 1 set

Test Result:

Check Item Style/Item No.	Appearance Check (Visual Check)	Functional check
ECS-9210-700/ No.3	No visible damage	Normal

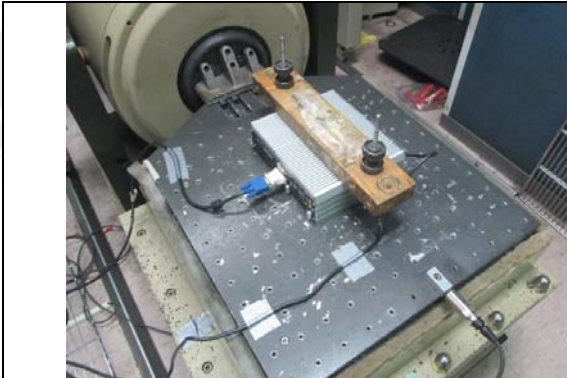
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Test Photos:

	
<p>1. Appearance of specimen</p>	<p>2. Appearance of specimen</p>
	
<p>3. Low Temperature Test</p>	<p>4. Low Temperature Test</p>
	
<p>5. High Temperature/ Humidity Test</p>	<p>6. High Temperature/ Humidity Test</p>

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Test Photos--Continued:



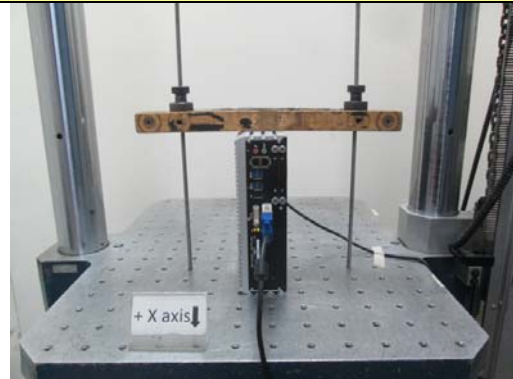
7. Operating Random Vibration Test: X axis



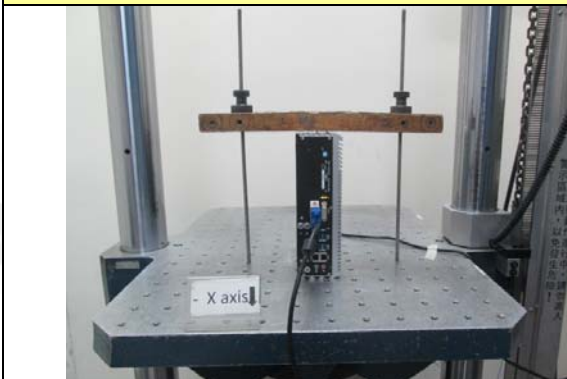
8. Operating Random Vibration Test: Y axis



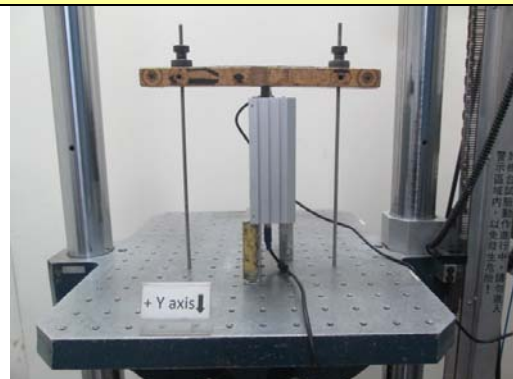
9. Operating Random Vibration Test: Z axis



10. Operating Mechanical Shock Test: +X axis



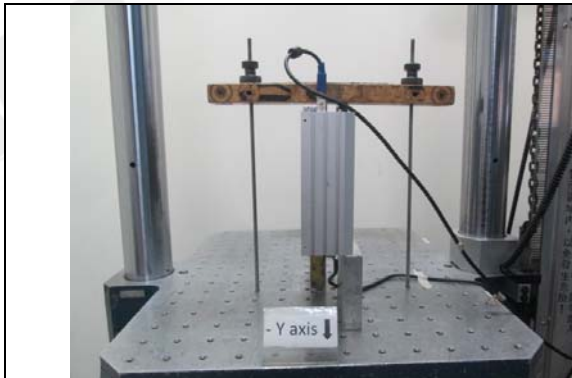
11. Operating Mechanical Shock Test: -X axis



12. Operating Mechanical Shock Test: +Y axis

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Test Photos--Continued:



13. Operating Mechanical Shock Test: -Y axis



14. Operating Mechanical Shock Test: +Z axis



15. Operating Mechanical Shock Test: -Z axis



16. Functional check

— — — The End of Test Report — — —

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