

TEST REPORT

Report No.: HCO0028/2022
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Date: November 8, 2022

VECOW CO., LTD.
3F., NO.10, JIANKANG RD., ZHONGHE DIST.,
NEW TAIPEI CITY, TAIWAN

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

Product Description: AI Computing System
Style/ Item No.: RCX-2750R-PEG/ No.1
Quantity: Total 1 piece
Testing Period: Oct. 4, 2022 to Nov. 2, 2022
Note: (Client's declaration) The configuration of specimen(s) as shown below:
1. CPU: Intel® core™ i7-11700 @2.5GHz
2. GPU: NVIDIA Geforce RTX 2080*2
3. RAM: Vecow 8GB DDR4 2666-19 SODIMM WT & Innodisk 16GB
DDR4 2666 WT SODIMM
4. SSD: Innodisk 2.5" SATA SSD 3ME4 128GB

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. High Temperature and High Humidity Test
2. Low Temperature Test
3. Random Vibration Test
4. Mechanical Shock Test

Test Results: - PLEASE SEE ATTACHED SHEETS -

Signed for and on behalf of
SGS TAIWAN Ltd.



Alex Chen
Asst. Supervisor

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1. High Temperature and High Humidity Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	Giant Force	GTH-1000-60-CP-AR-H	MAA1904-001

Lab Environmental Conditions:

Ambient temperature: (25 ± 3) °C

Ambient humidity: (55 ± 20) % RH

Test Location:

No.31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

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

Sample condition: Operating

Temperature: 60°C

Test Humidity: 95% RH

Duration: 16 hours

- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then execute the test program "Burn-In Test" and "3D Mark" while performing functional check.

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Specimen:

Style/ Item No.: RCX-2750R-PEG/ No.1

Quantity: Total 1 piece

Test Result:

<div style="text-align: right;">Check Item</div> <div style="text-align: left;">Style/ Item No.</div>	Appearance Check (visual check)	Functional Check
RCX-2750R-PEG/ No.1	No visible damage	Normal

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2. Low Temperature Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	Giant Force	GTH-1000-60-CP-AR-H	MAA1904-001

Lab Environmental Conditions:

Ambient temperature: (25 ± 3) °C

Ambient humidity: (55 ± 20) % RH

Test Location:

No. 31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

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

Sample condition: Operating

Temperature: -25°C

Duration: 16 hours

- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then execute the test program "Burn-In Test" and "3D Mark" while performing functional check.

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Specimen:

Style/ Item No.: RCX-2750R-PEG/ No.1

Quantity: Total 1 piece

Test Result:

<div style="text-align: right;">Check Item</div> <div style="text-align: left;">Style/ Item No.</div>	Appearance Check (visual check)	Functional Check
RCX-2750R-PEG/ No.1	No visible damage	Normal

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3. Random Vibration Test:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	LW213529

Lab Environmental Conditions:

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

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

Test Location:

No.31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District, New Taipei City, Taiwan

Test Method/ Specification:

Test Method: IEC 61373, Edition 2.0:2010, Table 1, Class B - Body mounted

Sample condition: Operating

Wave form: Random

Frequency: (5 ~ 150) Hz

Transverse - X axis		Longitudinal - Y axis		Vertical - Z axis	
Frequency (Hz)	PSD $((\text{m/s}^2)^2 / \text{Hz})$	Frequency (Hz)	PSD $((\text{m/s}^2)^2 / \text{Hz})$	Frequency (Hz)	PSD $((\text{m/s}^2)^2 / \text{Hz})$
5	0.0060	5	0.0144	5	0.0301
20	0.0060	20	0.0144	20	0.0301
150	0.00010814	150	0.0002595	150	0.00054254
⇨ equivalent to 0.44 (m/s ²)rms		⇨ equivalent to 0.68 (m/s ²)rms		⇨ equivalent to 0.99 (m/s ²)rms	

Direction: X, Y, Z axes (as show in photo 6 ~ 8)

Test duration: 30 minutes/ axis

- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then execute the test program “Burn-In Test” and “3D Mark” while performing functional check.

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Specimen:

Style/ Item No.: RCX-2750R-PEG/ No.1

Quantity: Total 1 piece

Test Result:

Style/ Item No.	Check Item Appearance Check (visual check)	Functional Check
RCX-2750R-PEG/ No.1	No visible damage	Normal

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4. Mechanical Shock Test:

Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test System	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	353B34	LW213529

Lab Environmental Conditions:

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

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

Test Location:

No.31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District,
New Taipei City, Taiwan

Test Method/ Specification:

Test Method: IEC 61373, Edition 2.0:2010, Table 3, Class A and Class B - Body mounted

Sample condition: Non-Operating

Pulse shape: Half-sine

Acceleration: Vertical-Z: 3 g;

Transverse-X: 3 g;

Longitudinal-Y: 5 g

Pulse duration: 30 ms

Shock direction: 6 faces ($\pm X, \pm Y, \pm Z$ axes, see photo 6 ~ 8)

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

- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Turn on the power of specimen then execute the test program "Burn-In Test" and "3D Mark" while performing functional check.

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Specimen:

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Quantity: Total 1 piece

Test Result:

Style/ Item No.	Check Item Appearance Check (visual check)	Functional Check
RCX-2750R-PEG/ No.1	No visible damage	Normal

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Test Photos:

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

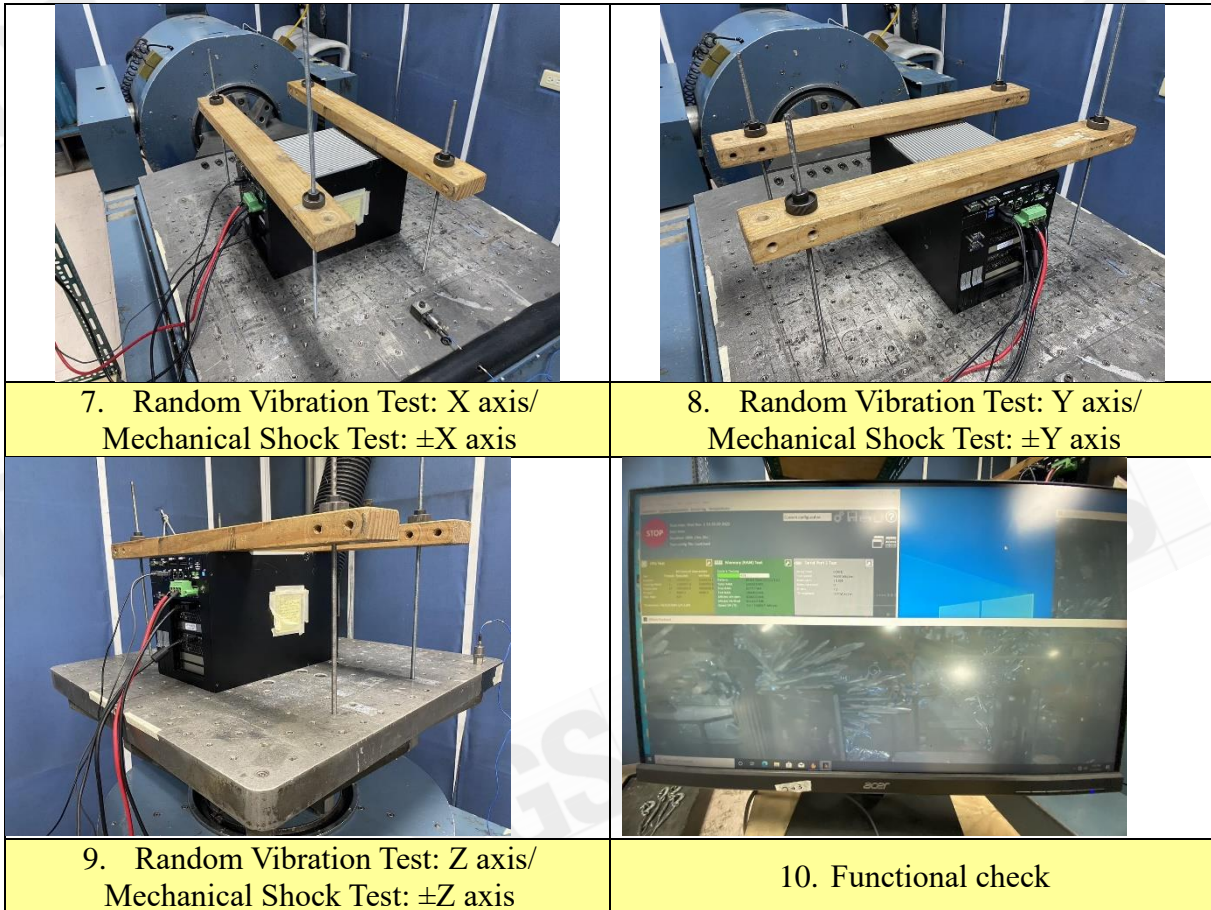
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Test Photos--Continued:



— — — The End of Test Report — — —

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