

## TEST REPORT

Report No.: HX70016/2023

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Date: August 28, 2023

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.: ECX-3800-PEG/ No.1  
Quantity: Total 1 set  
Testing Period: Aug. 17, 2023

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. Vibration Test
2. Functional Shock Test

Test Results: – PLEASE SEE ATTACHED SHEETS –

Signed for and on behalf of  
SGS TAIWAN Ltd.



Sandra Chen  
Team Leader-PM

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**Sample Configuration:**

CPU	12th Gen Intel® Core™ i7-12700E @2.10GHz
RAM	SMART DDR5 4800 8GB *2
SSD	Innodisk 2.5'' SATA SSD 3TG6-P 512GB
GPU	NVIDIA GeForce RTX3050 NVIDIA GeForce GTX1650

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# TEST REPORT

## 1. 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: MIL-STD-810G w/Change 1: 2014, Method 514.7, Procedure I,  
Table 514.7C-I Category 4 - Common carrier and client's request

Sample condition: Operating

Wave form: Random

Frequency: (10 ~ 500) Hz (Test Spectrums as shown in the following sheets in detail)

Direction: X, Y, Z axes

Duration: 1 hour/ 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 execute the test program "3D Mark" and "BurnIn Test" while performing functional check.

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Test Method/ Specification--Continued:

Test Spectrums:

Vertical - Z axis		Transverse - X axis		Longitudinal - Y axis	
Frequency (Hz)	PSD (g <sup>2</sup> /Hz)	Frequency (Hz)	PSD (g <sup>2</sup> /Hz)	Frequency (Hz)	PSD (g <sup>2</sup> /Hz)
10	0.01500	10	0.00013	10	0.00650
40	0.01500	20	0.00065	20	0.00650
500	0.00015	30	0.00065	120	0.00020
⇨ equivalent to 1.04 G <sub>rms</sub>		78	0.00002	121	0.00300
		79	0.00019	200	0.00300
		120	0.00019	240	0.00150
		500	0.00001	340	0.00003
		⇨ equivalent to 0.20 G <sub>rms</sub>		500	0.00015
		⇨ equivalent to 0.74 G <sub>rms</sub>			

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**Specimen:**

Style/ Item No.: ECX-3800-PEG/ No.1

Quantity: Total 1 set

**Test Result:**

Style/ Item No.	Check Item	Appearance Check (Visual Check)	Functional Check
ECX-3800-PEG/ No.1		No visible damage	Normal

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## 2. Functional 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.33, Wu Chyuan Road, New Taipei Industrial Park, WuKu District,  
New Taipei City, Taiwan

### Test Method/ Specification:

Test Method: MIL-STD-810G w/Change 1: 2014, Method 516.7 Procedure I - Functional Shock and client's request

Sample condition: Operating

Pulse shape: Sawtooth

Acceleration: 20 g

Pulse duration: 11 ms

Shock direction: 6 faces ( $\pm X$ ,  $\pm Y$ ,  $\pm Z$  axes)

No. of shock: 3 shocks/ face (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 execute the test program "3D Mark" and "BurnIn Test" while performing functional check.

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**Specimen:**

Style/ Item No.: ECX-3800-PEG/ No.1

Quantity: Total 1 set







**Test Result:**

Style/ Item No.	Check Item	Appearance Check (Visual Check)	Functional Check
ECX-3800-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. Vibration Test: X axis/ Functional Shock Test: <math>\pm</math>X axis</p>	<p>4. Vibration Test: Y axis Functional Shock Test: <math>\pm</math>Y axis</p>
	
<p>5. Vibration Test: Z axis Functional Shock Test: <math>\pm</math>Z axis</p>	<p>6. Functional Check</p>

— — — The End of Test Report — — —

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