

## TEST REPORT

Report No.: HC60151/2023

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Date: October 24, 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: Compact Embedded Computing System  
Style/ Item No.: VCM-1000/ No.1, No.2  
Quantity: Total 2 pieces  
Testing Period: Jul. 3, 2023 to Sep. 5, 2023  
Note: (Client's declaration) System Configuration of Equipment under measurement:  
CPU: 13th Intel® Core™ i7-13700TE @1.10GHz  
RAM: INNODISK DDR5 4800 W/T 32GB \*2  
SSD: MEMXPRO ET30 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 Test
2. Low Temperature Test
3. Vibration 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 Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	GIANTFORCE	GTH-800-60-CP-AR	MAA2008-016

### 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 60068-2-2, Edition 5.0: 2007 and client's request

Test Temperature: 60 °C

Test Humidity: 95 % RH

Test duration: 16 hours

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

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**Specimen:**

Style/ Item No.: VCM-1000/ No.1

Quantity: Total 1 piece

**Test Result:**

<div style="text-align: center;">Check Item</div> <div style="text-align: left;">Style/ Item No.</div>	<div style="text-align: center;">Appearance Check (Visual check)</div>	<div style="text-align: center;">Functional check</div>
<div style="text-align: center;">VCM-1000/ No.1</div>	<div style="text-align: center;">No visible damage</div>	<div style="text-align: center;">Normal</div>

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## 2. Low Temperature Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	GIANTFORCE	GTH-800-60-CP-AR	MAA2008-016

### 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 60068-2-1, Edition 6.0: 2007 and client's request

Test Temperature: -25 °C

Test duration: 16 hours

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

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**Specimen:**

Style/ Item No.: VCM-1000/ No.1

Quantity: Total 1 piece

**Test Result:**

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional check
VCM-1000/ No.1	No visible damage	Normal

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### 3. Vibration Test:

#### Test Equipment:

Name	Brand	Model	Serial No.
Vibration Test	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 60068-2-64, Edition 2.0: 2008 and client's request

Wave form: Random

Frequency: (5 ~ 500) Hz

Frequency (Hz)	Left Slope (dB/Oct.)	PSD ( $\text{g}^2/\text{Hz}$ )	Right Slope (dB/Oct.)
5	-	0.05	0
500	0	0.05	-
⇒ equivalent to 5.0 grms			

Direction: X, Y, Z axes (as show in photo 5 ~ 7)

Test duration: 30 minutes/ axis

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

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**Specimen:**

Style/ Item No.: VCM-1000/ No.2


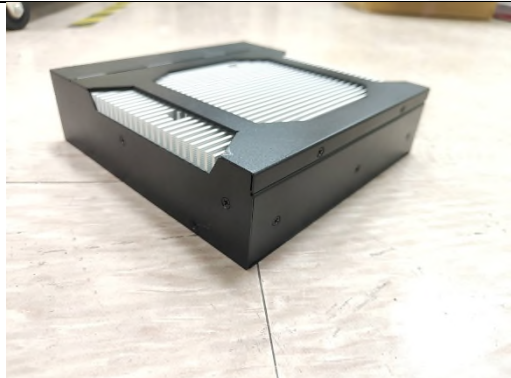




Quantity: Total 1 piece

**Test Result:**

Style/ Item No.	Check Item	Appearance Check (Visual check)	Functional check
VCM-1000/ No.2		No visible damage	Normal

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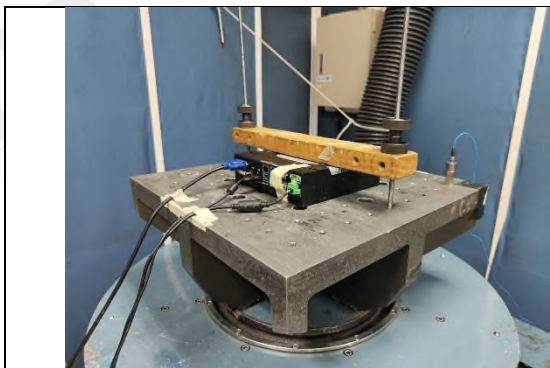
Test Photos:

	
<p>1. Appearance of specimen</p>	<p>2. Appearance of specimen</p>
	
<p>3. High/ Low Temperature Test</p>	<p>4. High/ Low Temperature Test</p>
	
<p>5. Vibration Test: X axis</p>	<p>6. Vibration Test: Y axis</p>

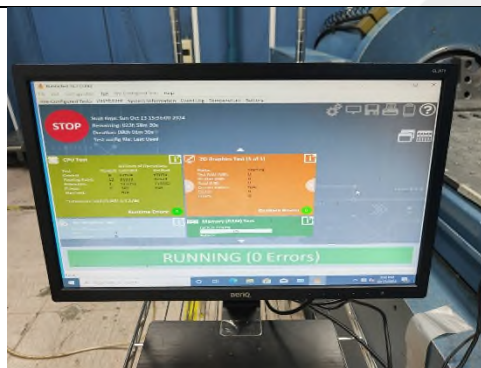
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Test Photos--Continued:



7. Vibration Test: Z axis



8. Functional check

— — — The End of Test Report — — —

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