

Reliability Laboratory

Report No.: HC60152A/2023 Page: 1 of 11 Date: November 2, 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-1100F/ No.1, No.2	
<u>Quantity:</u>	Total 2 pieces	
Testing Period:	Jul. 3, 2023 to Sep. 23, 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: (According to client's test specification, please see following sheets in detail.) **Test Required:**

- High Temperature and High Humidity Test 1.
- 2. Low Temperature Test
- Vibration Test 3.
- Mechanical Shock Test 4.

Test Results: - PLEASE SEE ATTACHED SHEETS -

*HC60152A/2023 is the additional issued report with new test items and includes the test results of HC60152/2023, dated on August 10, 2023.

> Signed for and on behalf of SGS TAIWAN Ltd.

Alex Chen Asst. Supervisor

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GS Taiwan I td 台灣檢驗科技股份有限公司。

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TEST REPORT

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J TT' - 1. TT.

. High Temperature and Hi Test Equipment:	<u>gh Humidity Test:</u>			
Nam	e	Brand	Model	Serial No.
Programmable Temperature	& Humidity Chamber	GIANT FORCE	GTH-800-60-CP-AR	MAA1804-001
Lab Environmental Condi				
Ambient temperature: Ambient humidity:	$\frac{(25 \pm 3) \circ C}{(55 \pm 20) \% RH}$			
Test Location:	No.31, Wu Chyuan	Road, New Taipo	ei Industrial Park, Wu	<u>Ku District,</u>
	<u>New Taipei City, Ta</u>	<u>iiwan.</u>		
Test Method/ Specificatio	<u>n:</u>			
Test Method:	<u>IEC 60068-2-78, Ec</u>	dition 2.0: 2012 a	nd client's request	
Sample condition:	<u>Operating</u>			
Test Temperature:	<u>75 °C</u>			
Test Humidity:	<u>95 % RH</u>			
Test duration:	16 hours			

- Examine the appearance of specimen by visual check and perform functional check after this test.
- Functional check: Connect the specimen with rated power and then examine whether the test program "BurnIn test" could be work normally or not.

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Style/ Item No.:

VCM-1100F/ No.2	
Total 1 piece	

Test Result:

Quantity:

Specimen:

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional check	
VCM-1100F/ No.2	No visible damage	Normal	

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Low Tomporatura Tast

9	Brand	Model	Serial No.
& Humidity Chamber	GIANT FORCE	GTH-800-60-CP-AR	MAA2008-016
tions:			
<u>(25 ± 3) °C</u>			
<u>(55 ± 20) % RH</u>			
	-	ei Industrial Park, Wul	<u>Ku District,</u>
<u>1:</u>			
IEC 60068-2-1 Edit	ion 6.0: 2007 and	l client's request	
Operating			
<u>-25°C</u>			
16 hours			
	$\frac{(55 \pm 20) \% \text{ RH}}{\text{No.31, Wu Chyuan}}$ $\frac{\text{Now Taipei City, Ta}}{\text{New Taipei City, Ta}}$ $\frac{\text{IEC } 60068-2-1 \text{ Edit}}{\text{Operating}}$ $\frac{-25^{\circ}\text{C}}{\text{C}}$	& Humidity Chamber GIANT FORCE tions: $(25 \pm 3) \circ C$ $(55 \pm 20) \% RH$ No.31, Wu Chyuan Road, New Taiper New Taipei City, Taiwan 1: IEC 60068-2-1 Edition 6.0: 2007 and Operating -25°C	& Humidity Chamber GIANT FORCE GTH-800-60-CP-AR tions: (25 ± 3) °C (55 ± 20) % RH No.31, Wu Chyuan Road, New Taipei Industrial Park, Wu New Taipei City, Taiwan 1: IEC 60068-2-1 Edition 6.0: 2007 and client's request Operating -25°C

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

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Specimen:

Style/ Item No .: Quantity:

VCM-1100F/ No.1 Total 1 piece

Test Result:

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional Check
VCM-1100F/ No.1	No visible damage	Normal

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3. Vibration Test:

-	•
Test Ho	uipment:
I COL LU	uipinent.

Test Equipment.			
Name	Brand	Model	Serial No.
Vibration Tester	King Design	EM-5000F2K-75N600	WR109237101
Controller	Crystal	Spider	1001664
Control Accelerometer	WR	793-6	A4632

Lab Environmental Conditions:

Ambient temperature:	(25 ± 3) °C
Ambient humidity:	(55 ± 20) % RH

Test Location:

<u>No. 31, Wu Chyuan Road, New Taipei Industrial Park, WuKu District,</u> <u>New Taipei City, Taiwan</u>

Test Method/ Specification:

Test Method:			IEC 61373.	, Edition 2.0: 2	010 and clier	nt's request	
Sample condition: <u>Operating</u>							
		Random					
Frequency: $(5 \sim 1)$		<u>(5 ~ 150) H</u>	<u>Iz</u>				
		Vertical		Vertical Transverse		Longit	udinal
		Frequency	PSD (σ^2/Hz)	Frequency	PSD (σ^2/Hz)	Frequency (Ha)	PSD (a^2/Ha)
		(Hz)	(g^2/Hz)	(Hz)	(g^2/Hz)	(Hz)	(g^2/H)

	(Hz)	(g^2/Hz)	(Hz)	(g^2/Hz)	(Hz)	(g^2/Hz)
	5	0.007	5	0.00138	5	0.0033
	150	0.007	150	0.00138	150	0.0033
	rms = 0	.99 m/s ²	rms = 0	.44 m/s ²	rms = 0.	.68 m/s ²
Direction:		X, Y, Z axes	s (See photo 7	~ 9)		

Duration:

30 minutes/ axis

- Examine the appearance of the specimen(s) by visual check and perform functional check after this test.
- Functional check: Connect the specimen(s) with rated power then examining whether the test program "BurnIn Test" could be work normally or not.

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Style/ Item No.:

VCM-1100F/ No.2
Total 1 piece

Test Result:

Quantity:

Specimen:

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional check	
VCM-1100F/ No.2	No visible damage	Normal	

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4. Mechanical Shock Test:

Brand	Model	Serial No.
King Design	EM-5000F2K-75N600	WR109237101
Crystal	Spider	1001664
WR	793-6	A4632
	King Design Crystal	King DesignEM-5000F2K-75N600CrystalSpider

Lab Environmental Conditions:

Ambient temperature:	<u>(25 ± 3) °C</u>
Ambient humidity:	<u>(55 ± 20) % RH</u>

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 and client's request
Sample condition:	Operating
Pulse shape:	Half-sine
Acceleration:	Vertical: 3 g
	Transverse: 3g
	Longitudinal: 5g
Pulse duration:	<u>30 ms</u>
Shock direction:	<u>6 faces ($\pm X$, $\pm Y$, $\pm Z$ axes, see photo 7 ~ 9)</u>
No. of shock:	3 shocks/ axis (total 18 shocks)

• Examine the appearance of the specimen(s) by visual check and perform functional check after this test.

• Functional check: Connect the specimen(s) with rated power then examining whether the test program "BurnIn Test" could be work normally or not.

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Reliability Laboratory

Style/ Item No.:

VCM-1100F/ No.2		
Total 1 piece		

Test Result:

Quantity:

Specimen:

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional check
VCM-1100F/ No.2	No visible damage	Normal

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Test Photos:

Image: constraint of the section of	1000	<u>1 II0t03.</u>	
3. High Temperature and High Humidity Test 4. High Temperature and High Humidity Test Image: Construction of the temperature and temperature and temperature and the temperature and temperature a	5		
3. High Temperature and High Humidity Test 4. High Temperature and High Humidity Test Image: State S		1. Appearance of specimen	2. Appearance of specimen
	3		
		3. High Temperature and High Humidity Test	4. High Temperature and High Humidity Test
	53		
5. Low Temperature Test6. Low Temperature Test		5. Low Temperature Test	6. Low Temperature Test

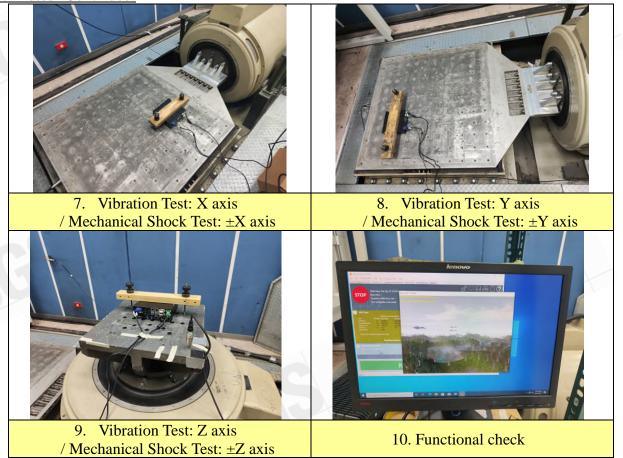
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Test Photos--Continued:



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