

## **TEST REPORT**

 Report No.:
 HC50117/2022

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 Date:
 June 7, 2022
 12

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:Ultra-Compact Embedded SystemStyle/ Item No.:PBC-1000/ No.1Manufacturer/ Vendor:Vecow Co., Ltd.Country of Origin:TaiwanQuantity:Total 1 pieceTesting Period:May 26, 2022 to Jun. 6, 2022

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

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

- 1. High Temperature Test
- 2. Low Temperature Test
- 3. 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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> <mark>SGS Taiwan Ltd.</mark> 台灣檢驗科技股份有限公司\_

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#### **Reliability Laboratory**

#### 1. High Temperature Test:

Test Equipment:				
Nam	e	Brand	Model	Serial No.
Programmable Temperature	e & Humidity Chamber	KSON	THS-D6TS-150+LN2	A0347
			/	
Lab Environmental Cond	itions:			
Ambient temperature:	<u>(25 ± 3) °C</u>			
Ambient humidity:	<u>(55 ± 20)% RH</u>			
Test Location:	<u>No.31, Wu Chyuan F</u>	Road, New 7	Taipei Industrial Park, Wu	<u>Ku District,</u>
	New Taipei City, Tai	wan.		
Test Method/ Specification	on:			
Test Method:	IEC 60068-2-2, Editi	ion 5.0: 200	7 and client's request	
Test Temperature:	<u>70 °C</u>			
Test Humidity:	<u>95 % RH</u>			
Test duration:	16 hours			

- Sample condition: Operating.
- 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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**Reliability Laboratory** 

Style/ Item No.:

PBC-1000/ No.1
Total 1 piece

Test Result:

Quantity:

Specimen:

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

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#### **Reliability Laboratory**

#### 2. Low Temperature Test:

Test Equipment:			
Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	KSON	THS-D6TS-150+LN2	A0347
		7	

#### Lab Environmental Conditions:

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

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: 2	007 and client's request
Test Temperature:	<u>-40 °C</u>	
Test duration:	<u>16 hours</u>	

- Sample condition: Operating.
- 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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**Reliability Laboratory** 

Style/ Item No.:

## PBC-1000/ No.1 Total 1 piece

Test Result:

Quantity:

Specimen:

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

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#### **Reliability Laboratory**

#### 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	LW228242

#### Lab Environmental Conditions:

Ambient temperature:	$(25 \pm 3)$ °C
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 60068-2-64	4 Edition 2.1: 201	9 and client's	request
Wave form:	Random			
Frequency:	( <u>5 ~ 500) Hz</u>			
	Frequency	Left Slope	PSD	Right Slope
	(Hz)	(dB/Oct.)	$(g^2/Hz)$	(dB/Oct.)
	5		0.05	0
	500	0	0.05	-
	⇒equivalent t	to 5.0 g <sub>rms</sub>		
Direction:	X, Y, Z axes (as	show in photo 5	~ 7)	
Test duration:	30 minutes/ axi	<u>s</u>		

- Sample condition: Operating.
- 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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Specimen: Style/ Item No.:

PBC-1000/ No.1 Total 1 piece

Test Result:

Quantity:

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

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. Mechanical Shock Test : <u>Test Equipment</u> :			
Name	Brand	Model	Serial No.
Shock Test System	LANSMONT	95-115D	M17656
Data Acquisition & Analysis System	LANSMONT	TP4 8A-CH SML	1115-001
ICP Accelerometer	РСВ	353M288	190564
Lab Environmental Conditi Ambient temperature:	$(25 \pm 3)$ °C		
Ambient humidity:	$(55 \pm 20)$ % RH		
Test Location:	<u>No. 33, Wu Chyuan Road,</u> <u>New Taipei City, Taiwan</u>	New Taipei Industrial Park,	WuKu District,
Test Method/ Specification	<u>:</u>		
Test Method:	IEC 60068-2-27 Edition 4.	0: 2008 and client's request	
Pulse shape:	Half-sine		
Acceleration:	<u>50 g</u>		
Pulse duration:	<u>11 ms</u>		
Shock direction:	<u>6 faces (<math>\pm X</math>, <math>\pm Y</math>, <math>\pm Z</math> axes, s</u>	ee photo 8 ~ 13)	
No. of shock:	3 shocks/ axis (total 18 sho	<u>cks)</u>	

- Sample condition: Non-Operating
- 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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Specimen: Style/ Item No.: PBC-1000/ No.1 Quantity: Total 1 piece

Test Result:

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

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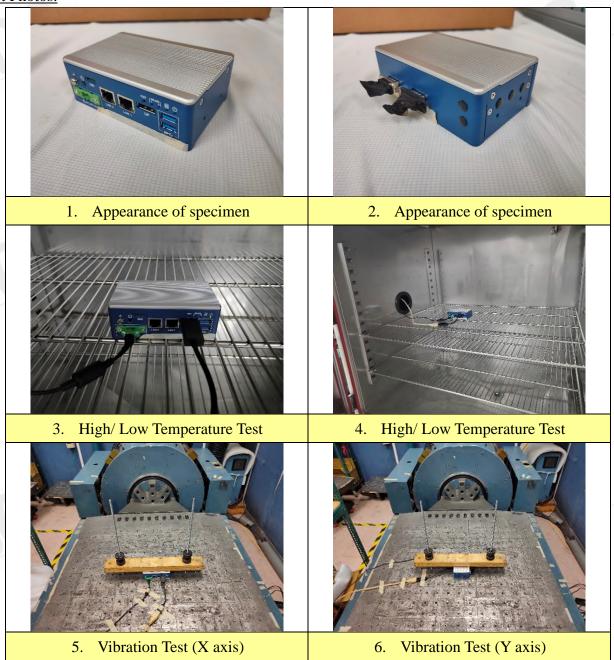
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Test Photos:



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Test Photos--Continued:

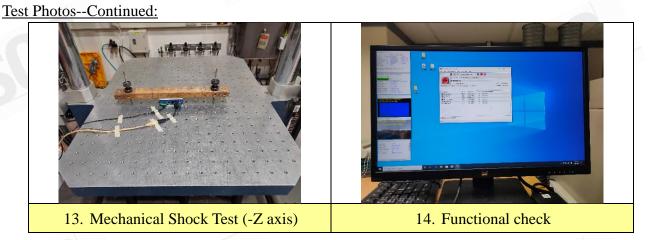
st PhotosContinued.			
7. Vibration Test (Z axis)	8. Mechanical Shock Test (+X axis)		
9. Mechanical Shock Test (-X axis)	10. Mechanical Shock Test (+Y axis)		
11. Mechanical Shock Test (-Y axis)	12. Mechanical Shock Test (+Z axis)		

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### The End of Test Report -

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