

TEST REPORT

Report No.: HC60057/2022

Page: 1 of 12

Date: July 20, 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: Edge AI Computing system
Style/ Item No.: EAC-2100/ No.1
Quantity: Total 1 piece
Testing Period: Jun. 15, 2022 to Jul. 18, 2022
Note: (Client's declaration) System Configuration of Equipment under measurement:
SOC: NVIDIA Jetson Xavier NX with 384-core CUDA GPU and Carmel CPU
RAM: 8GB 128-bit LPDDR4x
Storage: 16GB eMMC 5.1

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
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 Test:

Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	KSON	THS-D6TS-150+LN2	A0493

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: 65 °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, GPU test, Camera burn test” function of specimen(s) could be work normally or not.

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Specimen:

Style/ Item No.: EAC-2100/ No.1

Quantity: Total 1 piece

Test Result:

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional check
EAC-2100/ 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	KSON	THS-D6TS-150+LN2	A0493

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: -20 °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, GPU test, Camera burn test” function of specimen(s) could be work normally or not.

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Specimen:

Style/ Item No.: EAC-2100/ No.1

Quantity: Total 1 piece

Test Result:

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional check
EAC-2100/ No.1	No visible damage	Normal

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3. Vibration Test:

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
Vibration Test	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	IMI	35618

Lab Environmental Conditions:

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

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

Test Location: No.31 & 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 514.7 Procedure I, Table 514.7C-1 Category 4 – Common carrier

Wave form: Random

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

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

Test duration: 1 hour/ 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, GPU test, Camera burn test” function of specimen(s) could be work normally or not.

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Test Method/ Specification--Continued:

Test Spectrums:

Vertical - Z axis		Transverse - X axis		Longitudinal - Y axis	
Frequency (Hz)	PSD (g ² /Hz)	Frequency (Hz)	PSD (g ² /Hz)	Frequency (Hz)	PSD (g ² /Hz)
10	0.015	10	0.00013	10	0.0065
40	0.015	20	0.00065	20	0.0065
500	0.00015	30	0.00065	120	0.0002
		78	0.00065	121	0.003
		79	0.00002	200	0.003
		120	0.00019	240	0.0015
		500	0.00019	340	0.00003
				500	0.00015
⇒ equivalent to 1.04 (g)rms		⇒ equivalent to 0.20 (g)rms		⇒ equivalent to 0.74 (g)rms	

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Specimen:

Style/ Item No.: EAC-2100/ No.1

Quantity: Total 1 piece

Test Result:

Check Item Style/ Item No.	Appearance Check (Visual check)	Functional check
EAC-2100/ No.1	No visible damage	Normal

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4. Mechanical Shock Test :

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
Vibration Test	UNHOLTZ-DICKIE	SAI60-H560BAC/2/ST	474
Controller	Dactron	LASER	7110357
Control Accelerometer	PCB	IMI	35618

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 516.7 Procedure I, Functional

Shock Test

Pulse shape: Sawtooth

Acceleration: 20g

Pulse duration: 11 ms

Shock direction: 6 faces (+X, +Y, +Z axes, see photo 5 ~ 7)

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

- 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, GPU test, Camera burn test” function of specimen(s) could be work normally or not.

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Specimen:

Style/ Item No.: EAC-2100/ No.1

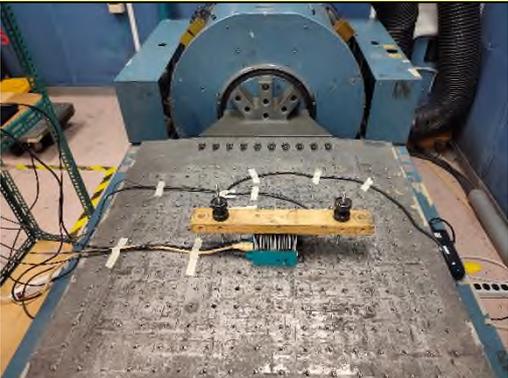
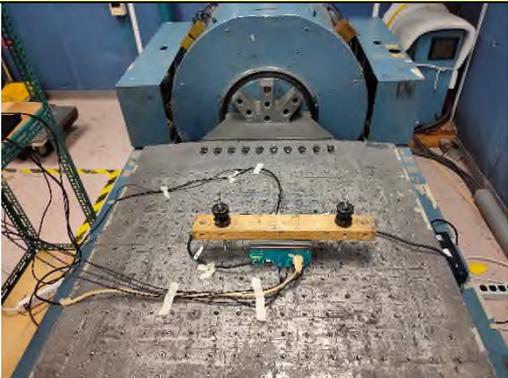
Quantity: Total 1 piece

Test Result:

<div style="text-align: center;">Check Item</div> <div style="text-align: center;">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;">EAC-2100/ No.1</div>	<div style="text-align: center;">No visible damage</div>	<div style="text-align: center;">Normal</div>

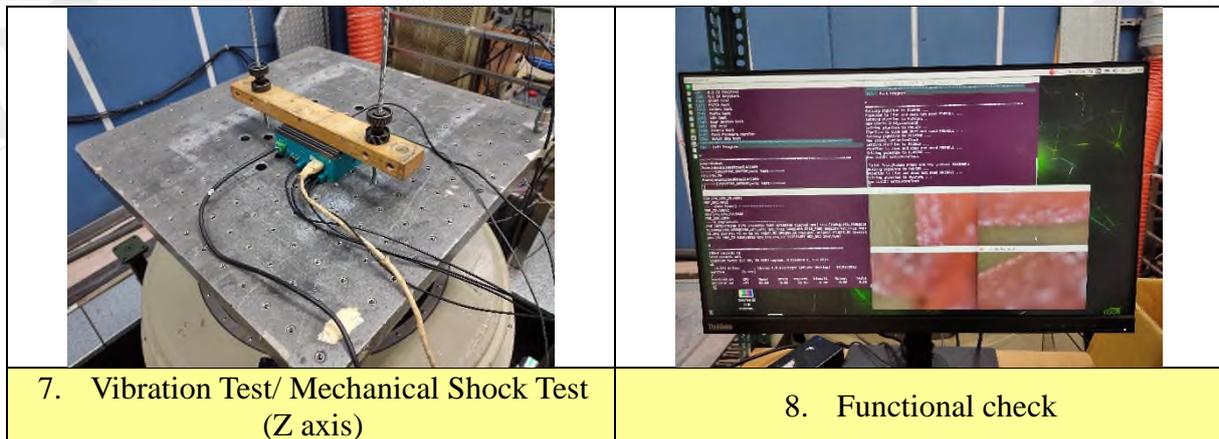
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Test Photos:

	
<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/ Mechanical Shock Test (X axis)</p>	<p>6. Vibration Test/ Mechanical Shock Test (Y axis)</p>

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Test Photos--Continued:



— — — The End of Test Report — — —

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