

TEST REPORT

Report No.: HC80165/2023

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Date: October 20, 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: Edge AI Computing System
Style/ Item No.: EAC-3000/ No.1
Quantity: Total 1 piece
Testing Period: Sep. 23, 2023
Note: (Client's declaration) System Configuration of Equipment under measurement:
CPU: 8-core NVIDIA Carmel ARM® v8.2 64-bit CPU
GPU: NVIDIA Volta architecture with 512 NVIDIA® CUDA® cores and 64 Tensor cores
DL Accelerator: 2x NVDLA Engines
Memory: 1 LPDDR4x DRAM, up to 64GB
Software Support: Linux, NVIDIA JetPack SDK

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. Mechanical Shock Test

Test Results: – PLEASE SEE ATTACHED SHEETS –

Signed for and on behalf of
SGS TAIWAN Ltd.



Hank Chiou
Asst. Manager

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1. 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	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: 2008, Method 514.6, Procedure I and client's request

Sample condition: Operating

Wave form: Random

Frequency: $(10 \sim 500) \text{ Hz}$

Vertical		Transverse		Longitudinal	
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
rms = 1.04 g		78	0.00002	121	0.003
		79	0.00019	200	0.003
		120	0.00019	240	0.0015
		500	0.00001	340	0.00003
			rms = 0.20 g		500
				rms = 0.74 g	

Direction: X, Y, Z axes (See photo 3 ~ 5)

Duration: 1 hour/ axis

- Examine the appearance of the specimen(s) 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-3000/ No.1

Quantity: Total 1 piece

Test Result:

Style/ Item No.	Check Item	Appearance Check (visual check)	Functional Check
	EAC-3000/ No.1		No visible damage

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2. 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	353B34	LW213529

Lab Environmental Conditions:

Ambient temperature: (25 ± 3) °C

Ambient humidity: (55 ± 20) % 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 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, see photo 3 ~ 5)

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: 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-3000/ No.1







Quantity: Total 1 piece

Test Result:

<div style="text-align: right;">Check Item</div> <div style="text-align: left;">Style/ Item No.</div>	Appearance Check (visual check)	Functional Check
EAC-3000/ No.1	No visible damage	Normal

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Test Photos:

	
<p>1. Appearance of carton</p>	<p>2. Appearance of carton</p>
	
<p>3. Vibration Test: X axis / Mechanical Shock Test: \pmX axis</p>	<p>4. Vibration Test: Y axis / Mechanical Shock Test: \pmY axis</p>
	
<p>5. Vibration Test: Z axis / Mechanical Shock Test: \pmZ axis</p>	<p>6. Functional check</p>

— — — The End of Test Report — — —

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