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

SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司
1. High Temperature Test:

**Test Equipment:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Brand</th>
<th>Model</th>
<th>Serial No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programmable Temperature &amp; Humidity Chamber</td>
<td>KSON</td>
<td>THS-D6TS-150+LN2</td>
<td>A0493</td>
</tr>
</tbody>
</table>

**Lab Environmental Conditions:**

Ambient temperature: \((25 \pm 3) ^\circ C\)

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 \(^\circ C\)

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.
### Test Result:

<table>
<thead>
<tr>
<th>Check Item</th>
<th>Appearance Check (Visual check)</th>
<th>Functional check</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAC-2100/ No.1</td>
<td>No visible damage</td>
<td>Normal</td>
</tr>
</tbody>
</table>

Specimen:
- **Style/ Item No.**: EAC-2100/ No.1
- **Quantity**: Total 1 piece

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2. Low Temperature Test:

Test Equipment:

<table>
<thead>
<tr>
<th>Name</th>
<th>Brand</th>
<th>Model</th>
<th>Serial No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programmable Temperature &amp; Humidity Chamber</td>
<td>KSON</td>
<td>THS-D6TS-150+LN2</td>
<td>A0493</td>
</tr>
</tbody>
</table>

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 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.
### Specimen:
- **Style/Item No.:** EAC-2100/No.1
- **Quantity:** Total 1 piece

### Test Result:

<table>
<thead>
<tr>
<th>Style/Item No.</th>
<th>Appearance Check (Visual check)</th>
<th>Functional check</th>
</tr>
</thead>
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<tr>
<td>EAC-2100/No.1</td>
<td>No visible damage</td>
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</table>
3. Vibration Test:

Test Equipment:

<table>
<thead>
<tr>
<th>Name</th>
<th>Brand</th>
<th>Model</th>
<th>Serial No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibration Tester</td>
<td>King Design</td>
<td>EM-5000F2K-75N600</td>
<td>WR109237101</td>
</tr>
<tr>
<td>Controller</td>
<td>Crystal</td>
<td>spider</td>
<td>1001664</td>
</tr>
<tr>
<td>Control Accelerometer</td>
<td>WR</td>
<td>793-6</td>
<td>A4632</td>
</tr>
<tr>
<td>Vibration Test</td>
<td>UNHOLTZ-DICKIE</td>
<td>SAI60-H560BAC/2/ST</td>
<td>474</td>
</tr>
<tr>
<td>Controller</td>
<td>Dactron</td>
<td>LASER</td>
<td>7110357</td>
</tr>
<tr>
<td>Control Accelerometer</td>
<td>PCB</td>
<td>IMI</td>
<td>35618</td>
</tr>
</tbody>
</table>

Lab Environmental Conditions:

- Ambient temperature: \((25 \pm 3) ^\circ C\)
- 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: \((10 ~ 500) \text{ Hz (Test Spectrums as shown in the following sheets in detail)}\)
- 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.
### Test Spectrums:

<table>
<thead>
<tr>
<th>Vertical - Z axis</th>
<th>Transverse - X axis</th>
<th>Longitudinal - Y axis</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency (Hz)</strong></td>
<td><strong>PSD (g²/Hz)</strong></td>
<td><strong>Frequency (Hz)</strong></td>
</tr>
<tr>
<td>10</td>
<td>0.015</td>
<td>10</td>
</tr>
<tr>
<td>40</td>
<td>0.015</td>
<td>20</td>
</tr>
<tr>
<td>500</td>
<td>0.00015</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>78</td>
</tr>
<tr>
<td></td>
<td></td>
<td>79</td>
</tr>
<tr>
<td></td>
<td></td>
<td>120</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

→ 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:**

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<th>Style/ Item No.</th>
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4. Mechanical Shock Test:

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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:
- 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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### Test Photos:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Appearance of specimen</td>
</tr>
<tr>
<td>2.</td>
<td>Appearance of specimen</td>
</tr>
<tr>
<td>3.</td>
<td>High/ Low Temperature Test</td>
</tr>
<tr>
<td>4.</td>
<td>High/ Low Temperature Test</td>
</tr>
<tr>
<td>5.</td>
<td>Vibration Test/ Mechanical Shock Test (X axis)</td>
</tr>
<tr>
<td>6.</td>
<td>Vibration Test/ Mechanical Shock Test (Y axis)</td>
</tr>
</tbody>
</table>
Test Photos--Continued:

7. Vibration Test/ Mechanical Shock Test (Z axis)  
8. Functional check

—— — — — The End of Test Report — — — —