

TEST REPORT

 Report No.:
 HC60048A/2017

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 12

 Date:
 June 22, 2017

VECOW CO., LTD. 12 F., NO. 111, ZHONGCHENG RD., TUCHENG DIST., NEW TAIPEI CITY, TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

| Product Description: | Ultra-Compact Embedded System |
|----------------------|-------------------------------|
| Style/ Item No.: | ECS-4500-PoER/ No.1 |
| <u>Quantity:</u> | Total 1 set |
| Testing Period: | Jun. 8, 2017 to Jun. 19, 2017 |

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/ Humidity Test
- 2. Low Temperature Test
- 3. Random Vibration Test
- 4. Mechanical Shock Test

Test Results: - PLEASE SEE ATTACHED SHEETS -

*HC60048/2017, dated on June 21, 2017, is hereby canceled and replaced by HC60048A/2017.

Signed for and on behalf of SGS TAIWAN Ltd.

Hank Chiou Supervisor

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Reliability Laboratory

Test Equipment:

1. High Temperature/ Humidity Test:

| Name | Brand | Model | Serial No. |
|---|-------|------------------|------------|
| Programmable Temperature and Humidity Chamber | KSON | THS-D6TS-150+LN2 | A0494 |

Lab Environmental Conditions:

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

Test Method/ Specification:

| Test Method: | IEC 60068-2-78, Edition 2.0:2012 and client's request |
|-------------------|---|
| Sample Condition: | Operating (execute Burn-In Test) |
| Test temperature: | <u>85°C</u> |
| Test humidity: | <u>95%RH</u> |
| Test duration: | <u>16 hours</u> |

- Examine the appearance of specimen(s) by visual check and perform functional check after this test
- Functional check: Turn on the power of specimen then execute test program "Burn-In Test" while performing functional check.

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Specimen:

Style/ Item No.: Quantity: ECS-4500-PoER/ No.1 Total 1 set

Test Result:

| Check Item Style/ Item No. | Appearance check (Visual check) | Functional check | |
|-------------------------------|------------------------------------|------------------|--|
| ECS-4500-PoER/ No.1 | No visible damage | Normal | |

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2. Low Temperature Test:

Test Equipment:

| Nai | ne | Brand | Model | Serial No. |
|---------------------------|------------------------|-------|------------------|------------|
| Programmable Temperature | e and Humidity Chamber | KSON | THS-D6TS-150+LN2 | A0494 |
| | | | | |
| Lab Environmental Condi | itions: | | | |
| Ambient temperature: | <u>(25 ± 3) °C</u> | | | |
| Ambient humidity: | <u>(55 ± 20) % RH</u> | | | |
| | | | | |
| Test Method/ Specificatio | <u>n:</u> | | | |

Test Method:IEC 60068-2-1, Edition 6.0:2007 and client's requestSample Condition:Operating (execute Burn-In Test)Test temperature: -40° CTest duration:16 hours

- Examine the appearance of specimen(s) by visual check and perform functional check after this test
- Functional check: Turn on the power of specimen then execute test program "Burn-In Test" while performing functional check.

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Specimen:

Style/ Item No.: Quantity: ECS-4500-PoER/ No.1 Total 1 set

Test Result:

| Check Item Style/ Item No. | Appearance check (Visual check) | Functional check | |
|-------------------------------|------------------------------------|------------------|--|
| ECS-4500-PoER/ No.1 | No visible damage | Normal | |

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3. Random Vibration Test:

| Test | Eq | ui | pm | ent: | |
|------|----|----|----|------|--|
| | | | | | |

| Brand | Model | Serial No. |
|-------------|------------------------|---|
| King Design | EM-800F2K-50N120 | RU104080389 |
| Dactron | COMET 200 | 10539718 |
| PCB | 353B34 | 143549 |
| | King Design Dactron | King DesignEM-800F2K-50N120DactronCOMET 200 |

Lab Environmental Conditions:

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

Test Method/ Specification:

| Test method: | <u>IEC 60068-2-64</u> | IEC 60068-2-64, Edition 2.0: 2008 | | | |
|-------------------|------------------------|-----------------------------------|-----------------------------|--------------------------|--|
| Sample condition: | Operating (exec | Operating (execute "BurnIn Test") | | | |
| Wave form: | Random | Random | | | |
| Frequency: | <u>(5 ~ 500) Hz</u> | | | | |
| | Frequency (Hz) | Left Slope (dB/Oct.) | PSD (G ² /Hz) | Right Slope (dB/Oct.) | |
| | 5 | | 0.05 | 0 | |
| | 500 | 0 | 0.05 | _ | |
| | ⇐⇒ equivalen | t to 5.0 G _{rms} | | | |
| Direction: | X, Y, Z axes (se | e photo 5 ~ 7) | | | |
| Duration: | <u>30 minutes/ axi</u> | <u>s</u> | | | |
| | | | | | |

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

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Specimen:

Style/Item No.: Quantity: ECS-4500-PoER/ No.1 Total 1 set

Test Result:

| Check Item Style/ Item No. | Appearance check (Visual check) | Functional check |
|-------------------------------|------------------------------------|------------------|
| ECS-4500-PoER/ No.1 | No visible damage | Normal |

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4. Mechanical Shock Test:

Test Equipment:

| Name | Brand | Model | Serial No. |
|------------------------------------|----------|-------------|------------|
| Shock Test System | LANSMONT | 65-81 TTSII | M-13418 |
| Data Acquisition & Analysis System | LANSMONT | 103570-2-В | 0503-73 |
| ICP Accelerometer | PCB | 353B14 | 79347 |

Lab Environmental Conditions:

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

Test Method/ Specification:

| Test Method: | IEC 60068-2-27, Edition 4.0: 2008 |
|-------------------|--|
| Sample condition: | Operating (execute "BurnIn Test") |
| Pulse shape: | Half-sine |
| Acceleration: | <u>50 G</u> |
| Pulse duration: | <u>11 ms</u> |
| Shock direction: | <u>6 faces ($\pm X$, $\pm Y$, $\pm Z$ axes, see photo 8 ~ 13)</u> |
| No. of shock: | 3 shocks/ axis (total 18 shocks) |
| | |

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

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Specimen:

Style/Item No.: Quantity: ECS-4500-PoER/ No.1 Total 1 set

Test Result:

| Check Item Style/ Item No. | Appearance check (Visual check) | Functional check |
|-------------------------------|------------------------------------|------------------|
| ECS-4500-PoER/ No.1 | No visible damage | Normal |

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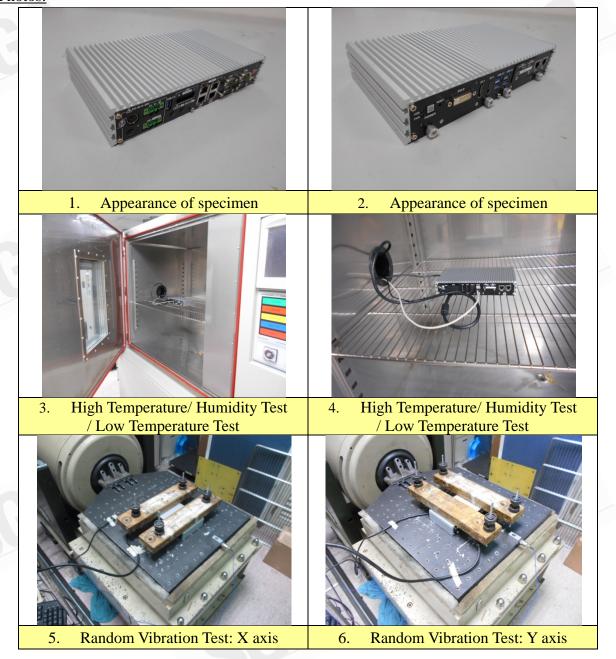
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Test Photos:



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Test Photos -- continued:

| ιιι | lotos continued. | | |
|-----|------------------------------------|------------------------------------|--|
| | | + X axis | |
| | 7. Random Vibration Test: Z axis | 8. Mechanical Shock Test: +X axis | |
| | - X axis | + Y axist | |
| | 9. Mechanical Shock Test: -X axis | 10. Mechanical Shock Test: +Y axis | |
| | Y axis J | + Z axis] | |
| | 11. Mechanical Shock Test: -Y axis | 12. Mechanical Shock Test: +Z axis | |

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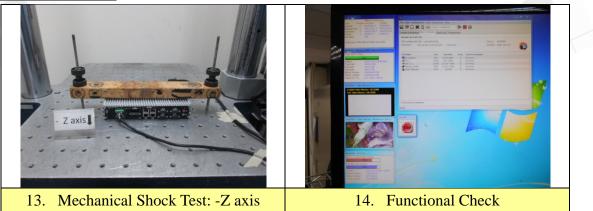
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TEST REPORT

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Test Photos -- continued:



– — — The End of Test Report — -

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