TESTING / INSPECTION REPORT

REPORT NO: VT-180511-2

COMPANY: TechNexion Ltd.
ADDRESS: 16F-5, No. 736, Zhongzheng Road, ZhongHe District, 23511,
New Taipei City, Taiwan
TEL: 886-2-8227-3585
FAX: 886-2-8227-3590
SPECIMEN: TEP1560 BSW series
TEP5-BSW E8000 --- TEP5-BSW E8000
Power Expansion-LPOE---TXR-P1-12V-POE1
I/O Expansion-XG21----TXR-I2-GS2-GG8

DATE OF RECEIVED: 2018/04/26
DATE OF TESTED: 2018/04/26

TEST / INSPECTION ITEMS: Vibration Test

REMARKS:
- The laboratory is accredited by ISO/IEC 17025 General Requirements for the Competence of Calibration and Testing Laboratory.
- The results only apply to the device under test.
- This report is 8 pages, and no part of it may be abstracted or reproduced.

Test Engineer:

Approval Signatory: David Lee
Laboratory Head:

TELECOMS / VIBRATION / SHOCK INSTRUMENTS

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TESTING EQUIPMENT:
2. Controller: DACTRON LASER USB, S/N: 12448370

TEST ENVIRONMENT:
Temperature: 25°C (25±10°C)
Relative Humidity: 62%RH (50±25% RH)

SPECIMEN:
No1
Model/(S/N): TEP1560 BSW series
  TEP5-BSW E8000 ---TEP5-BSW E8000
  Power Expansion-LPOE---TXR-P1-12V-POE1
  I/O Expansion-XG21---TXR-I2-GS2-GG8

Quantity: 1 unit
TESTING / INSPECTION REPORT

TEST SPECIFICATION:
As per applicant’s requirement---

Random Vibration test (Operating)
Frequency: 5 Hz to 500 Hz

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>PSD (g²/Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0.00202068</td>
</tr>
<tr>
<td>500</td>
<td>0.00202068</td>
</tr>
</tbody>
</table>

Test Axis: X, Y, Z axis
Acceleration: 1 grms
Test Time: 60 min / axis
Total Test Time: 180 min

TEST RESULT:

<table>
<thead>
<tr>
<th>Describe</th>
<th>PASS</th>
<th>FAIL</th>
<th>Non-Judgment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function judgment (1)</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance check (2)</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1)—Booting function was normal after the test.
(2)—No visible damages were found.
## Vibration Testing Photos

<table>
<thead>
<tr>
<th>Testing equipment</th>
<th>Z axis</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Testing equipment" /></td>
<td><img src="image2" alt="Z axis" /></td>
</tr>
<tr>
<td><img src="image3" alt="X axis" /></td>
<td><img src="image4" alt="Y axis" /></td>
</tr>
</tbody>
</table>
Testing photos

After test-1

After test-2
X axis -
Test Type: Random
Run Folder: \RunFolder Apr 26, 2018 11-03-49

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>(gn)^2/Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00</td>
<td>0.5200</td>
</tr>
<tr>
<td>10.00</td>
<td>0.1000</td>
</tr>
<tr>
<td>50.00</td>
<td>0.0100</td>
</tr>
<tr>
<td>100.00</td>
<td>0.0010</td>
</tr>
<tr>
<td>500.00</td>
<td>0.0001</td>
</tr>
<tr>
<td>1000.00</td>
<td>1.80E-06</td>
</tr>
<tr>
<td>5000.00</td>
<td>1.00E-05</td>
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<tr>
<td>10000.00</td>
<td>0.000001</td>
</tr>
<tr>
<td>50000.00</td>
<td>0.0010</td>
</tr>
<tr>
<td>100000.00</td>
<td>0.1000</td>
</tr>
</tbody>
</table>

Demand RMS: 1.000664 gn
Full Level Elapsed Time: 01:00:00
Lines: 400 Frame Time: 0.800000 Seconds

Control RMS: 1.003309 gn
Remaining Time: 00:00:00
DOF: 154 dF: 1.250000 Hz
Z axis
Test Type: Random
Run Folder: \RunFolder Apr 26, 2018 13-25-35

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>(gn)²/Hz</th>
<th>Level: 100%</th>
<th>Control RMS: 1.002569 gn</th>
<th>Demand RMS: 1.000664 gn</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00</td>
<td>500.00</td>
<td>0.5200</td>
<td>0.0001</td>
<td>0.0001</td>
</tr>
<tr>
<td>10.00</td>
<td>5.00</td>
<td>1.80E-06</td>
<td>0.0010</td>
<td>0.0010</td>
</tr>
<tr>
<td>100.00</td>
<td>10.00</td>
<td>1.00E-05</td>
<td>0.0100</td>
<td>0.0100</td>
</tr>
<tr>
<td>500.00</td>
<td>100.00</td>
<td>0.0001</td>
<td>0.1000</td>
<td>0.1000</td>
</tr>
</tbody>
</table>

Elapsed Time: 01:00:00
Lines: 400
Frame Time: 0.800000 Seconds
Remaining Time: 00:00:00
DOF: 154
dF: 1.250000 Hz

-END-