



**Testing Summary**  
**Getac K120 laptop Docking Station**  
 (7160-1082)

**Summary of Tests Performed at Gamber-Johnson**

Test Description	Test Parameters
Vibration – Operational Test date: February, 2019	Getac Developmental Testing Specification per Figure 1. Test duration is two hours along three mutually orthogonal axes – not simultaneously (6 hours total). <ul style="list-style-type: none"> <li>• Unit is unlocked</li> <li>• OEM provided operating conditions</li> </ul>
Vibration – Operational RF Connection Test date: February, 2019	MIL-STD-810G, Method 514.6, Procedure 1, Category 4, per Figure 514.6C-1. Test duration is two hours along three mutually orthogonal axes – not simultaneously (6 hours total). <ul style="list-style-type: none"> <li>• Unit is unlocked</li> <li>• OEM provided operating conditions</li> <li>• Test is performed simultaneously with operational test.</li> <li>• Test is monitored to record any breaks in RF connectivity during vibration.</li> </ul>
Vibration – Non-Operational (Minimum Integrity) Test date: February, 2019	Getac Developmental Testing Specification. MIL-STD-810G, Method 514.6, Category 24, per Figure 514.6E-1. Test duration is one hour along three mutually orthogonal axes – not simultaneously (3 hours total). <ul style="list-style-type: none"> <li>• Unit is unlocked</li> <li>• OEM provided operating conditions</li> </ul>
Shock – Bump Test Test date: February, 2019	Getac Developmental Testing Specification. IEC 60068-2-27:2008. 1000 positive and negative pulses in the vertical axis, 2000 total. <ul style="list-style-type: none"> <li>• 25G, 6ms half sine</li> <li>• Unit is unlocked</li> </ul>
Functional Shock - Operational Test date: February, 2019	Getac Developmental Testing Specification. MIL-STD-810G, Method 516.6, Procedure 1, 3 positive and 3 negative pulses each axis (vertical, longitudinal and transverse), 18 pulses total. <ul style="list-style-type: none"> <li>• 20G, 11ms Terminal Peak Saw-Tooth</li> <li>• Unit is unlocked</li> </ul>
Mechanical Shock Safety - Non-Operational Test date: February, 2019	Getac Developmental Testing Specification. MIL-STD-810G, Method 516.6, Procedure 1, 3 positive and 3 negative pulses each axis (vertical, longitudinal and transverse), 18 pulses total. <ul style="list-style-type: none"> <li>• 40G, 11ms half sine</li> <li>• Unit is unlocked</li> </ul>

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<p>Directional Force Test Test date: February, 2019</p>	<p>Getac Developmental Testing Specification.</p> <ul style="list-style-type: none"> <li>• Connector Lateral-Force Life Test             <ul style="list-style-type: none"> <li>○ RJ-11, RJ-45, DC-in, HDMI, VGA, Ethernet                 <ul style="list-style-type: none"> <li>▪ 5Kg</li> <li>▪ (10) 15 –Second cycles</li> </ul> </li> </ul> </li> <li>• DC Jack Strength Test             <ul style="list-style-type: none"> <li>○ Drop 1kg weight on DC jack</li> <li>○ Cotton thread must exceed 15 cm</li> </ul> </li> </ul> <p>10 Cycles. One cycle equals 3 drops per direction.</p>
<p>Security Testing Test date: March, 2019</p>	<p>Gamber-Johnson LLC Product Validation Testing Specification section 3.8. An attempt to remove computer from docking station will be tested. Using one simple tool the computer should not be removed from docking station under in 60 seconds. No damage to the computer should occur. Unit is locked</p>
<p>Cycle Testing – Non-Operational Test date: February, 2019</p>	<p>Getac Developmental Testing Specification.</p> <ul style="list-style-type: none"> <li>• 30,000 cycles of the docking connector, latching and locking mechanisms</li> </ul>
<p>Electrostatic Discharge – Operational Test date: February, 2019</p>	<p>ISO 10605, Section 8, Table C.2, Category 2 – Direct Air Discharge</p>

**Summary of Tests Performed at Independent Facility**

Test Description	Test Parameters
<p>Humidity Test date: January, 2019</p>	<p>MIL-STD 810G, Method 507.5, Procedure II, Aggravated</p> <ul style="list-style-type: none"> <li>• Ten 24-hour cycles, temperature varied from 30°C to 60°C to 30°C at constant 95% relative humidity, Non-Operating.</li> </ul>
<p>Thermal Shock Test date: January, 2019</p>	<p>MIL-STD 810G, Method 503.5, Procedure-I-C, Multi-Cycle Shock</p> <ul style="list-style-type: none"> <li>• Three, 2-hour cycles from -40°C to 71°C, Non-Operating</li> </ul>
<p>Low Temperature: Operational Test date: January, 2019</p>	<p>MIL-STD 810G, Method 501.5, Procedure</p> <ul style="list-style-type: none"> <li>• -20°C Operating, 24-hour duration</li> </ul>
<p>Low Temperature: Storage Test date: January, 2019</p>	<p>MIL-STD 810G, Method 502.5, Procedure I</p> <ul style="list-style-type: none"> <li>• -40°C Non-Operating, 96-hour duration</li> </ul>
<p>High Temperature: Operational Test date: January, 2019</p>	<p>MIL-STD 810G, Method 501.5, Procedure II</p> <ul style="list-style-type: none"> <li>• 50°C Operating, 96-hour duration</li> </ul>

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High Temperature: Storage Test date: January, 2019	MIL-STD 810G, Method 501.5, Procedure I - Storage <ul style="list-style-type: none"> <li>71°C Non-Operating, 96-hour duration</li> </ul>
Shock – Crash Hazard Test date: January 2019	SAE J1455, Section 4.11.3.5, per Figure 13 <ul style="list-style-type: none"> <li>Unit is unlocked</li> </ul>
EMC Testing Test date: January 2019	EN 50498:2010
EMC Testing Test date: February 2019	EN 55032:2015 <ul style="list-style-type: none"> <li>CISPR 22 – Class B</li> <li>FCC Part 15, Subpart B – Class B</li> </ul>
E-Mark Test date: April 2019	ECE R10 REV.5

**Other Certifications**

<b>Description</b>
EN 50581:2012 RoHS2 Directive 2011/65/EU

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