



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). • Unit is unlocked • OEM provided operating conditions
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). • Unit is unlocked • OEM provided operating conditions • Test is performed simultaneously with operational test. • Test is monitored to record any breaks in RF connectivity during vibration.
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). • Unit is unlocked • OEM provided operating conditions
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. • 25G, 6ms half sine • Unit is unlocked
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. • 20G, 11ms Terminal Peak Saw-Tooth • Unit is unlocked
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. • 40G, 11ms half sine • Unit is unlocked

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Directional Force Test Test date: February, 2019	Getac Developmental Testing Specification. - Connector Lateral-Force Life Test - RJ-11, RJ-45, DC-in, HDMI, VGA, Ethernet 5Kg (10) 15 –Second cycles - DC Jack Strength Test - Drop 1kg weight on DC jack - Cotton thread must exceed 15 cm 10 Cycles. One cycle equals 3 drops per direction.
Security Testing Test date: March, 2019	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
Cycle Testing – Non-Operational Test date: February, 2019	Getac Developmental Testing Specification. 30,000 cycles of the docking connector, latching and locking mechanisms
Electrostatic Discharge – Operational Test date: February, 2019	ISO 10605, Section 8, Table C.2, Category 2 – Direct Air Discharge

Summary of Tests Performed at Independent Facility

Test Description	Test Parameters
Humidity Test date: January, 2019	MIL-STD 810G, Method 507.5, Procedure II, Aggravated, Table 507.5-IX Ten 24-hour cycles, temperature varied from 30°C to 60°C to 30°C at constant 95% relative humidity.
Thermal Shock Test date: January, 2019	MIL-STD 810G, Method 503.5, Procedure I-C Three cycles from 85°C to -40°C to 85°C
Low Temperature: Operational Test date: January, 2019	MIL-STD 810G, Method 502.5, Procedure II -10°C Operating, 2-hour duration
Low Temperature: Storage Test date: January, 2019	MIL-STD 810G, Method 502.5, Procedure I -51°C Non-Operating, 4-hour duration
High Temperature: Operational Test date: January, 2019	MIL-STD 810G, Method 501.5, Procedure II, Table 501.5-II, Induced Conditions

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	Three 24-hour cycles, temperature varied from 30°C to 60°C to 30°C
High Temperature: Storage Test date: January, 2019	MIL-STD 810G, Method 502.5, Procedure I, Table 502.5-III, Induced Conditions Seven 24-hour cycles, temperature varied from 33°C to 71°C to 33°C
Shock – Crash Hazard Test date: January 2019	SAE J1455, Section 4.11.3.5, per Figure 13 Unit is unlocked
EMC Testing Test date: January 2019	EN 50498:2010
EMC Testing Test date: February 2019	EN 55032:2015 - CISPR 22 – Class B - FCC Part 15, Subpart B – Class B
E-Mark Test date: April 2019	ECE R10 REV.5

Other Certifications

Description
EN 50581:2012 RoHS2 Directive 2011/65/EU

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