



Testing Summary
Getac S510 Laptop Docking Station
 (7160-1929)

Summary of Tests Performed at Gamber-Johnson

Test Description	Test Parameters
Vibration – Operational Test date: September, 2024	Getac Developmental Testing Specification per Figure 1 Rev C. Test duration is two hours along three mutually orthogonal axes – not simultaneously (6 hours total). <ul style="list-style-type: none"> • Unit is unlocked • OEM provided operating conditions
Vibration – Operational RF Connection Test date: September, 2024	Getac Developmental Testing Specification per Figure 1 Rev C. Test duration is two hours along three mutually orthogonal axes – not simultaneously (6 hours total). <ul style="list-style-type: none"> • 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: October, 2024	Getac Developmental Testing Specification Rev C. 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"> • Unit is unlocked • OEM provided operating conditions
Shock – Bump Test Test date: September, 2024	Getac Developmental Testing Specification Rev C. IEC 60068-2-27:2008. 1000 positive and negative pulses in the vertical axis, 2000 total. <ul style="list-style-type: none"> • 25G, 6ms half sine • Unit is unlocked
Functional Shock - Operational Test date: September, 2024	Getac Developmental Testing Specification Rev C. 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"> • 20G, 11ms Terminal Peak Saw-Tooth • Unit is unlocked

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Mechanical Shock Safety - Non-Operational Test date: September, 2024	Getac Developmental Testing Specification Rev C. 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"> • 40G, 11ms half sine • Unit is unlocked
Cycle Testing – Non-Operational Test date: October, 2024	Getac Developmental Testing Specification Rev C. 30,000 cycles of the docking connector, latching and locking mechanisms
Electrostatic Discharge – Operational Test date: August, 2024	<ul style="list-style-type: none"> • 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: August, 2024	MIL-STD 810G, Method 502.5, Procedure II, Aggravated, Table 507.5 <ul style="list-style-type: none"> • Ten 24-hour cycles, temperature varied from 30°C to 60°C to 30°C at constant 95% relative humidity.
Thermal Shock Test date: August, 2024	MIL-STD 810G, Method 503.5, Procedure I-C <ul style="list-style-type: none"> • Three, 2-hour cycles from 85°C to -40°C to 85°C
Low Temperature: Operational Test date: August, 2024	MIL-STD 810G, Method 501.5, Procedure II <ul style="list-style-type: none"> • -21°C Operating, 96-hour duration
Low Temperature: Storage Test date: August, 2024	MIL-STD 810G, Method 502.5, Procedure I <ul style="list-style-type: none"> • -40°C Non-Operating, 96-hour duration
High Temperature: Operational Test date: August, 2024	MIL-STD 810G, Method 501.5, Procedure II <ul style="list-style-type: none"> • 50°C Operating, 96-hour duration
High Temperature: Storage Test date: August, 2024	Getac Developmental Testing Specification Rev C <ul style="list-style-type: none"> • Starting Temp: 24°C: 2 hours • Ramp time to 85°C: 2 hours • Soak time at 85°C: 72 hours • Ramp time to 24°C: 2 hours

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Shock – Crash Hazard Test date: October, 2024	SAE J1455, Section 4.11.3.5, per Figure 13 <ul style="list-style-type: none">• Unit is unlocked
EMC Testing Test date: August, 2024	EN 50498:2010
EMC Testing Test date: August, 2024	EN 55032:2015 <ul style="list-style-type: none">• CISPR 22 – Class A• FCC Part 15, Subpart B – Class A

Other Certifications

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

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