



Testing Summary
GJ Panasonic T1 Handheld Cradle
 (7160-1275)

Summary of Tests Performed at Gamber-Johnson

Test Description	Test Parameters
Vibration – Operational Test date: July 2019	Panasonic’s Toughbook criteria per graph B, tailored MIL-STD 810G 514.6. Test duration is 2 hours along three mutually orthogonal axes – not simultaneously (6 hours total). <ul style="list-style-type: none"> • Unit is unlocked
Vibration – Non-Operational (Minimum Integrity) Test date: June-July 2019	Panasonic’s Toughbook tested criteria per graph A. 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
Functional Shock - Non-Operational Test date: July 2019	MIL-STD-810G, Method 516.6, Procedure 1, 3 positive and 3 negative pulses each axis (vertical, longitudinal and transverse), 18 pulses <ul style="list-style-type: none"> • 20G, 11ms half sine • Unit is unlocked
Mechanical Shock Safety - Non-Operational Test date: July 2019	MIL-STD-810G, Method 516.6, Procedure 1, 3 positive and 3 negative pulses each axis (vertical, longitudinal and transverse), 18 pulses <ul style="list-style-type: none"> • 40G, 11ms half sine • Unit is unlocked
Security Testing Test date: July 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. <ul style="list-style-type: none"> • Unit is locked
Cycle Testing – Non-Operational Test date: July 2019	30,000 cycles of the docking connector, latching and locking mechanisms
Electrostatic Discharge – Operational Test date: July 2019	ISO 10605, Section 8, Table C.2, Category 2 – Direct Air Discharge

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Summary of Tests Performed at Independent Facility

Test Description	Test Parameters
Humidity Test date: July 2019	MIL-STD 810G, Method 507.5, Procedure II, Aggravated <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: July 2019	Panasonic Toughbook Criteria Specification 85°C to -40°C, Non-Operating <ul style="list-style-type: none"> • 2hrs at each temperature, 50 cycles
Low Temperature: Operational Test date: July 2019	MIL-STD 810G, Method 502.5, Procedure II <ul style="list-style-type: none"> • -20°C Operating, 24 hours
Low Temperature: Storage Test date: July 2019	MIL-STD 810G, Method 502.5, Procedure I <ul style="list-style-type: none"> • -40°C Non-Operating, 72 hours
High Temperature: Operational Test date: July 2019	MIL-STD 810G, Method 501.5, Procedure II, Table 501.5- II <ul style="list-style-type: none"> • (5) 24-hour cycles
High Temperature: Storage Test date: July 2019	MIL-STD 810G, Method 501.5, Procedure I <ul style="list-style-type: none"> • 96 hour soak at 71°C
Shock – Crash Hazard Test date: July 2019	SAE J1455, Section 4.11.3.5, per Figure 13 <ul style="list-style-type: none"> • Unit is unlocked • Tested in both laptop and tablet orientations.
EMC Testing Test date: July 2019	EN 55032:2012 <ul style="list-style-type: none"> • VCCI-CISPR 32 – Class B • FCC Part 15, Subpart B – Class B
E-Mark Test date: July 2019	ECE R10 REV.5

Other Certifications

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

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