



Testing Summary

Panasonic Toughbook 56 Laptop Docking Station

(7160-2075-00, 7160-2075-02, 7160-2075-10, 7160-2075-12, 7160-2075-20, 7160-2075-22)

Summary of Tests Performed at Gamber-Johnson

Test Description	Test Parameters
Vibration – Operational Test date: April, 2026	Panasonic's Toughbook criteria per graph B, tailored MIL-STD 810H 514.8. Test duration is 2 hours along three mutually orthogonal axes – not simultaneously (6 hours total). Unit is unlocked
Vibration – Operational RF Connection Test date: April, 2026	Panasonic's Toughbook criteria per graph B, tailored MIL-STD 810H 514.8. Test duration is 2 hours along three mutually orthogonal axes – not simultaneously (6 hours total). - Unit is unlocked - 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: Jan., 2026	Panasonic's Toughbook tested criteria per graph A.MIL-STD-810H, Method 514.8, Category 24, per Figure 514.8E-1. Test duration is one hour along three mutually orthogonal axes – not simultaneously (3 hours total). - Unit is unlocked - Tested in both laptop and tablet orientations.
Functional Shock - Non-Operational Test date: April, 2026	MIL-STD-810H, Method 516.8, Procedure 1, 3 positive and 3 negative pulses each axis (vertical, longitudinal and transverse), 18 pulses 20G, 11ms half sine - Unit is unlocked
Mechanical Shock Safety - Non-Operational Test date: April, 2026	MIL-STD-810H, Method 516.8, Procedure 1, 3 positive and 3 negative pulses each axis (vertical, longitudinal and transverse), 18 pulses 40G, 11ms half sine - Unit is unlocked
Cycle Testing – Non-Operational Test date: May. 2026	30,000 cycles of the docking connector, latching and locking mechanisms

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Electrostatic Discharge – Operational Test date: March, 2026	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: March, 2026	MIL-STD 810H, Method 507.6, Procedure II, Aggravated, Table 507.6 Ten 24-hour cycles, temperature varied from 30°C to 60°C to 30°C at constant 95% relative humidity.
Thermal Shock Test date: June, 2026	Panasonic Toughbook Criteria Specification 85°C to -40°C, Non-Operating 2hrs at each temperature, 50 cycles
Low Temperature: Operational Test date: March, 2026	MIL-STD 810H, Method 501.7, Procedure II -20°C Operating, 24 hours
Low Temperature: Storage Test date: March, 2026	MIL-STD 810H, Method 502.7, Procedure I -40°C Operating, 24 hours - Non-Operational
Cold Resistance: Test date: March, 2026	Panasonic Toughbook Criteria Specification -40°C Non-Operating, 72 hours - Non Operational
High Temperature: Operational Test date: March, 2026	MIL-STD 810H, Method 501.7, Procedure II 50°C Operating (5) 24-hour cycles
High Temperature: Storage Test date: March, 2026	MIL-STD 810H, Method 502.7, Procedure I - Non-Operational 33°C to 71°C w/ humidity as low as possible - Seven cycles (one cycle is 24 hours)

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Heat Resistance Test date: March, 2026	Panasonic Toughbook Criteria Specification • 72 hour soak at 85°C • Non-Operational
Shock – Crash Hazard Test date: Jan., 2026	SAE J1455, Section 4.11.3.5, per Figure 13 • Unit is unlocked
EMC Testing Test date: Jan., 2026	EN 50498:2010
EMC Testing Test date: Jan., 2026	EN 55032:2012 • VCCI-CISPR 32 – Class B • FCC Part 15, Subpart B – Class B
Safety Testing Test date: Feb., 2026	62368 • IEC 62368-1:2023 • CSA C22.2 No. 62368-1:2025 • EN IEC 62368-1:2024/A11:2024 • UL 62368-1:2025

Other Certifications

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

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