



Testing Summary
CF33 Laptop Docking Station and Cradle
 (7160-0909, 7160-0910)

Summary of Tests Performed at Gamber-Johnson

Test Description	Test Parameters
Vibration – Operational Test date: July, 2017	MIL-STD-810G, Method 514.6, Procedure 1, Category 4, per Figure 514.6C-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 • Panasonic provided operating conditions. • Tested in both laptop and tablet orientations.
Vibration – Operational RF Connection Test date: July, 2017	MIL-STD-810G, Method 514.6, Procedure 1, Category 4, per Figure 514.6C-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 • Panasonic provided operating conditions • Test is performed simultaneously with operational test. • Test is monitored to record any breaks in RF connectivity during vibration. • Tested in both laptop and tablet orientations.
Vibration – Non-Operational (Minimum Integrity) Test date: July, 2017	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. <ul style="list-style-type: none"> • Unit is unlocked • Tested in both laptop and tablet orientations.
Mechanical Shock Safety - Non-Operational Test date: July, 2017	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 • Tested in both laptop and tablet orientations.
Cycle Testing – Non-Operational Test date: July, 2017	30,000 cycles of the docking connector, latching and locking mechanisms
Electrostatic Discharge – Operational Test date: July, 2017	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: June, 2017	MIL-STD 810G, Method 507.5, Procedure II, Aggravated, Table 507.5-IX <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: June, 2017	MIL-STD 810G, Method 503.5, Procedure I-C <ul style="list-style-type: none"> • Fifty cycles from 85°C to -40°C to 85°C
Low Temperature: Operational Test date: June, 2017	MIL-STD 810G, Method 502.5, Procedure II <ul style="list-style-type: none"> • -10°C Operating, 24 hours
Low Temperature: Storage Test date: June, 2017	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: June, 2017	MIL-STD 810G, Method 501.5, Procedure II, Table 501.5-II, Induced Conditions <ul style="list-style-type: none"> • Five 24-hour cycles, temperature @ 63°C
High Temperature: Storage Test date: June, 2017	MIL-STD 810G, Method 502.5, Procedure I, Table 502.5-III, Induced Conditions <ul style="list-style-type: none"> • 72 hour soak at 85°C
Shock – Crash Hazard Test date: July, 2017	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, 2017	EN 50498:2010
EMC Testing Test date: July 2017	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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