

Testing Summary

7160-0515 V110 Docking Station

Summary of Tests Performed at Gamber-Johnson

Test Description	Test Parameters
Vibration – Operational Test date: Feb, 2014	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 • Vertical Profile used in all axes
Vibration – Operational RF Connection Test date: Feb, 2014	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 • Vertical Profile used in all axes • 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: Feb, 2014	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
Functional Shock - Non-Operational Test date: Feb, 2014	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: Feb, 2014	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
Cycle Testing – Non-Operational Test date: March 2014	30,000 cycles of the docking connector
Cycle Testing – Non-Operational Test date: March 2014	10,000 cycles of the latching and locking mechanisms
Electrostatic Discharge – Operational Test date: Feb, 2014	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, 2014	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.
Low Temperature: Operational Test date: March, 2014	MIL-STD 810G, Method 502.5, Procedure II <ul style="list-style-type: none"> -10°C Operating, 2-hour duration
Low Temperature: Storage Test date: March, 2014	MIL-STD 810G, Method 502.5, Procedure I <ul style="list-style-type: none"> -51°C Non-Operating, 4-hour duration
High Temperature: Operational Test date: March, 2014	MIL-STD 810G, Method 501.5, Procedure II, Table 501.5-II, Induced Conditions <ul style="list-style-type: none"> Three 24-hour cycles, temperature varied from 30°C to 60°C to 30°C
High Temperature: Storage Test date: March, 2014	MIL-STD 810G, Method 502.5, Procedure I, Table 502.5-III, Induced Conditions <ul style="list-style-type: none"> Seven 24-hour cycles, temperature varied from 33°C to 71°C to 33°C
Shock – Crash Hazard Test date: August, 2014	SAE J1455, Section 4.11.3.5, per Figure 13 <ul style="list-style-type: none"> Unit is unlocked
EMC Testing Test date: April 2014	ECE R10: 2012 Addendum 9, Revision 4
EMC Testing Test date: February 2014	EN 55022:2010/AC:2010 <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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