

## Testing Summary

### FZ-M1 Docking Station and Cradle

(7160-0531, 7160-0543)

#### Summary of Tests Performed at Gamber-Johnson

Test Description	Test Parameters
Vibration – Operational Test date: July, 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"> <li>• Unit is unlocked</li> <li>• Panasonic provided operating conditions</li> </ul>
Vibration – Operational <b>RF Connection</b> Test date: July, 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"> <li>• Unit is unlocked</li> <li>• Panasonic provided operating conditions</li> <li>• Test is performed simultaneously with operational test.</li> <li>• Test is monitored to record any breaks in RF connectivity during vibration.</li> </ul>
Vibration – Non-Operational (Minimum Integrity) Test date: July, 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"> <li>• Unit is unlocked</li> <li>• Panasonic provided operating conditions</li> </ul>
Vibration – Non-Operational Sinusoidal Test date: July, 2014	10-200Hz Sine Sweep <ul style="list-style-type: none"> <li>• Panasonic provided operating conditions</li> </ul>
Functional Shock - Non-Operational Test date: July, 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"> <li>• 20G, 11ms half sine</li> <li>• Unit is unlocked</li> </ul>
Mechanical Shock Safety - Non-Operational Test date: July, 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"> <li>• 40G, 11ms half sine</li> <li>• Unit is unlocked</li> </ul>
Cycle Testing – Non-Operational Test date: July, 2014	60,000 cycles of the docking connector and latching mechanisms

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Electrostatic Discharge – Operational Test date: July, 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
Shock – Crash Hazard Test date: August, 2014	SAE J1455, Section 4.11.3.5, per Figure 13 <ul style="list-style-type: none"> <li>• Unit is unlocked</li> </ul>
EMC Testing Test date: July 2014	ECE R10:2012 Addendum9, Revision 4
EMC Testing Test date: July 2014	EN 55022:2010/AC:2010 <ul style="list-style-type: none"> <li>• CISPR 22 – Class A</li> <li>• FCC Part 15, Subpart B – Class A</li> </ul> AS/NZS CISPR 22:2009+A1
Safety Testing Test date: July 2016	60950 <ul style="list-style-type: none"> <li>• IEC 60950-1(ed. 2);am1;am2</li> <li>• EN60950-1:2006/A2:2013</li> <li>• CAN/CSA C22.2 No. 60950-1:2007/A2:2014-10</li> <li>• UL 60950-1:2007/R:2014-10</li> </ul>

#### Other Certifications

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

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