

Testing Summary Dell Delta 2 Laptop Docking Station

(7160-1982)

Summary of Tests Performed at Gamber-Johnson

Test Description	Test Parameters
Vibration –	MIL-STD-810G, Method 514.6, Procedure 1, Category 4, per Figure
Operational	514.6C-1. Test duration is one hour along three mutually orthogonal
Test date: July, 2024	axes – not simultaneously (3 hours total).
	Unit is unlocked
Vibration –	MIL-STD-810G, Method 514.6, Category 24, per Figure 514.6E-1. Test
Non-Operational	duration is one hour along three mutually orthogonal axes – not
(Minimum Integrity)	simultaneously.
Test date: August, 2024	Unit is unlocked
Functional Shock -	MIL-STD-810G, Method 516.6, Procedure 1, 3 positive and 3 negative
Non-Operational	pulses each axis (vertical, longitudinal and transverse), 18 pulses
Test date: August, 2024	• 20G, 11ms half sine
	Unit is unlocked
Mechanical Shock	MIL-STD-810G, Method 516.6, Procedure 1, 3 positive and 3 negative
Safety -	pulses each axis (vertical, longitudinal and transverse), 18 pulses
Non-Operational	• 40G, 11ms half sine
Test date: August, 2024	Unit is unlocked
Electrostatic	ISO 10605, Section 8, Table C.2, Category 2 – Direct Air Discharge
Discharge –	
Operational	
Test date: August, 2024	

Summary of Tests Performed at Independent Facility

Test Description	Test Parameters
Humidity	MIL-STD 810G, Method 507.5, Procedure II, Aggravated, Table 507.5- I
Test date: August, 2024	• Ten 24-hour cycles, temperature varied from 30°C to 60°C to
	30°C at constant 95% relative humidity.
Thermal Shock	85°C to -40°C, Non-Operating
Test date: August, 2024	2hrs at each temperature, 3 cycles

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Low Temperature:	MIL-STD 810G, Method 502.5, Procedure II
Operational	 -20°C Operating, 24-hour duration
Test date: August, 2024	
Low Temperature:	MIL-STD 810G, Method 502.5, Procedure l
Storage	 -40°C Non-Operating, 24-hour duration
Test date: August, 2024	
High Temperature:	MIL-STD 810G, Method 501.5, Procedure II, Table 501.5-II, Induced
Operational	Conditions
Test date: August, 2024	 Five 24-hour cycles, temperature varied from 30°C to 60°C to
	30°C
High Temperature:	MIL-STD 810G, Method 501.5, Procedure I, Table 501.5-III, Induced
Storage	Conditions
Test date: August, 2024	• Seven 24-hour cycles, temperature varied from 33°C to 71°C to
	33°C
EMC Testing	EN 55032:2015
Test date: August, 2024	CISPR 32 – Class B
	• FCC Part 15, Subpart B – Class B
EMC Testing	EN 50498:2010
Test date: August, 2024	
Shock – Crash Hazard	SAE J1455, Section 4.11.3.5, per Figure 13
Test date: Sept, 2024	Unit is unlocked

Other Certifications

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

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