

TESTING SUMMARY

G2/CF20 LAPTOP DOCK (AS7.P020.1XX)

Test Description	Test Parameters
Vibration: Non-Operational	MIL-STD-810G, Method 514.6 E-1, Procedure I. Test duration is one hour along three mutually orthogonal axes – not simultaneously (3 hours total).
Vibration Operational	MIL-STD-810G CHG1, Method 514.6, per Figure 514.6C-1, and in accordance with PSD values in Graph B of Panasonic specification “Toughbook Tested for Vehicle Dock Partners Version 3.1” 2019-07-03., Section [A-1]. The computer was operating and all peripherals were being monitored during the testing. Test duration is two hours along three mutually orthogonal axes – not simultaneously (6 hours total). <ul style="list-style-type: none"> • Unit is unlocked
Mechanical Shock Safety: Non-Operational	MIL-STD-810H, Method 516.8, Procedure I. Shock testing is performed in accordance with section A-2 of Panasonic’s Toughbook tested criteria (rev3.1). 40g 11ms half sine wave pulses are injected in two directions per axis and 3 cycles per direction for a total of 18 pulses <ul style="list-style-type: none"> • 40G, 11ms half sine, Axis 3, Directions 6.
Cycle Test: Non-Operational	30,000 cycles of the docking connector, and latching mechanisms as per Panasonic specification “Toughbook Tested for Vehicle Dock Partners Version 3.1” 2019-07-03., Section [A-3]
EMC Testing	Panasonic specification “Toughbook Tested for Vehicle Dock Partners Version 3.1” 2019-07-03., Section [B-2], and as per: <ul style="list-style-type: none"> • FCC Part 15, Subpart B • ICES-003 • CISPR 32 • EN 50498:2010
ESD Testing	ISO 10605, section 8, Table C.2. Cat. 2
Low Temperature: Operational	MIL-STD 810H, Method 502.7, Procedure II <ul style="list-style-type: none"> • –10°C Operation, 24 hours
Low Temperature: Storage	MIL-STD 810H, Method 502.7, Procedure I <ul style="list-style-type: none"> • -20°C Non-Operational, 72 hours
High Temperature: Operational	MIL-STD 810H, Method 501.7, Procedure II, Category A2, Included. Conditions <ul style="list-style-type: none"> • Five 24-hour cycles, temperature varied from 30°C to 63°C to 30°C
High Temperature: Storage	MIL-STD 810H, Method 501.7, Procedure I, Conditions <ul style="list-style-type: none"> • 85°C Non-Operational, 72 hours
Thermal Shock	MIL-STD 810H, Method 503.7, Procedure I-C <ul style="list-style-type: none"> • Fifty cycles from 85°C to -40°C to 85°C; Dwell Time of 2 hours at each temp.
Humidity	MIL-STD 810G CHG1, Method 507.6, Procedure II, <ul style="list-style-type: none"> • 10 cycles of 24 hr, ranging from 30°C to 60°C at 95%RH, Non-Operational
RoHS Compliance	<ul style="list-style-type: none"> • EN IEC 63000:2018, RoHS3 Directive 2015/863



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