



## TESTING SUMMARY

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

Test Description	Test Parameters
<b>Vibration: Non-Operational</b>	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).
<b>Vibration Operational</b>	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"> <li>• Unit is unlocked</li> </ul>
<b>Mechanical Shock Safety: Non-Operational</b>	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"> <li>• 40G, 11ms half sine, Axis 3, Directions 6.</li> </ul>
<b>Mechanical Shock (Crash Hazard)</b> <i>Test date: Sep 2025</i>	MIL-STD-810G CHG1, 516.7, MIL-STD-810G CHG 1, Method 516.7, Procedure 5, SRS: 2 positive and 2 negative pulses along three mutually orthogonal axes (12 shocks in total). <ul style="list-style-type: none"> <li>• 75g SRS</li> </ul>
<b>Cycle Test: Non-Operational</b>	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]
<b>EMC Testing</b>	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"> <li>• FCC Part 15, Subpart B</li> <li>• ICES-003</li> <li>• CISPR 32</li> <li>• EN 50498:2010</li> </ul>
<b>ESD Testing</b>	ISO 10605, section 8, Table C.2. Cat. 2
<b>Low Temperature: Operational</b>	MIL-STD 810H, Method 502.7, Procedure II <ul style="list-style-type: none"> <li>• -10°C Operation, 24 hours</li> </ul>
<b>Low Temperature: Storage</b>	MIL-STD 810H, Method 502.7, Procedure I <ul style="list-style-type: none"> <li>• -20°C Non-Operational, 72 hours</li> </ul>
<b>High Temperature: Operational</b>	MIL-STD 810H, Method 501.7, Procedure II, Category A2, Included. Conditions <ul style="list-style-type: none"> <li>• Five 24-hour cycles, temperature varied from 30°C to 63°C to 30°C</li> </ul>
<b>High Temperature: Storage</b>	MIL-STD 810H, Method 501.7, Procedure I, Conditions <ul style="list-style-type: none"> <li>• 85°C Non-Operational, 72 hours</li> </ul>
<b>Thermal Shock</b>	MIL-STD 810H, Method 503.7, Procedure I-C

	<ul style="list-style-type: none"><li>• Fifty cycles from 85°C to -40°C to 85°C; Dwell Time of 2 hours at each temp.</li></ul>
<b>Humidity</b>	MIL-STD 810G CHG1, Method 507.6, Procedure II, <ul style="list-style-type: none"><li>• 10 cycles of 24 hr, ranging from 30°C to 60°C at 95%RH, Non-Operational</li></ul>
<b>RoHS Compliance</b>	<ul style="list-style-type: none"><li>• EN IEC 63000:2018, RoHS3 Directive 2015/863</li></ul>

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