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Mechanical and Materials Engineering Division
July 31, 2009

SUMMARY OF TESTS PERFORMED

Project Number: 18.04481.16.101

Company: Panasonic Computer Solutions Company
Three Panasonic Way, 2F-12
Secaucus, NJ 07094
Attn: Angela MacNeill

Equipment Tested: Panasonic CF-U1

Test Dates: May 2009 – July 2009

Notes: *The test item was evaluated for ability to boot into the Microsoft Windows® XP operating system following each of the tests described within this summary report. A listing of summarized tests and results appear in the accompanying table.*

Report Written By:

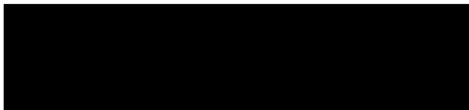


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Summary of Tests Performed on the Panasonic CF-U1

Test Description	Test Parameters	Test Results*
Altitude: Storage/Air Transport	MIL-STD-810G, Method 500.5, Procedure I <ul style="list-style-type: none"> 15,000ft Non-Operating 	Pass
Altitude: Operation/Air Carriage	MIL-STD-810G, Method 500.5, Procedure II <ul style="list-style-type: none"> 15,000ft Operating 	Pass
High Temperature: Storage	MIL-STD-810G, Method 501.5, Procedure I <ul style="list-style-type: none"> 160°F Non-Operating 	Pass
High Temperature: Operation	MIL-STD-810G, Method 501.5, Procedure II <ul style="list-style-type: none"> 140°F Operating 	Pass
High Temperature: Tactical—Standby to Operational	MIL-STD-810G, Method 501.5, Procedure III <ul style="list-style-type: none"> High storage (non-operating) to high operating (test for operation) Test results are for battery operation 	Pass
Low Temperature: Storage	MIL-STD-810G, Method 502.5, Procedure I <ul style="list-style-type: none"> -60°F Non-Operating 	Pass
Low Temperature: Operation	MIL-STD-810G, Method 502.5, Procedure II <ul style="list-style-type: none"> -20°F Operating 	Pass
Temperature Shock	MIL-STD-810G, Method 503.5, Procedure I <ul style="list-style-type: none"> From 200°F to -60°F, three cycles 	Pass
Rain: Blowing	MIL-STD-810G, Method 506.5, Procedure I <ul style="list-style-type: none"> 5.8in/hr rain, 70mph wind, 30 minutes per surface Unit operating 	Pass
Rain: Drip	MIL-STD-810G, Method 506.5, Procedure III <ul style="list-style-type: none"> 12 hour exposure, drip test 	Pass
Humidity	MIL-STD-810G, Method 507.5, Procedure II (Aggravated) <ul style="list-style-type: none"> Temp. cycles 86°F to 140°F; 95%RH 	Pass
Salt Fog	MIL-STD-810G, Method 509.5 <ul style="list-style-type: none"> 5% salt solution 48hr exposure period and 48-hr drying period 95°F exposure temperature 	Pass
Sand and Dust: Dust	MIL-STD-810G, Method 510.5, Procedure I <ul style="list-style-type: none"> Blowing Dust (operating) Operating temperature of 120°F 	Pass
Sand and Dust: Sand	MIL-STD-810G, Method 510.5, Procedure II <ul style="list-style-type: none"> Blowing Sand (operating) Operating temperature of 120°F 	Pass
Vibration: General Vibration - operating	MIL-STD-810G, Method 514.6, Procedure I (Transportation) <ul style="list-style-type: none"> Category 24, helicopter minimal integrity (operating) 	Pass
Vibration: General Vibration - non-operating	MIL-STD-810G, Method 514.6, Procedure I (Transportation) <ul style="list-style-type: none"> Category 24, helicopter minimal integrity (non-operating) 	Pass

* Full details will be provided in [REDACTED] Report Number 18.04481.16.100.FR3

* Test previously performed using comparable procedure. See [REDACTED] Report 18.04481.13.FR1

Test Description	Test Parameters	Test Results*
Vibration: Loose Cargo Transportation	MIL-STD-810G, Method 514.6, Procedure II	Pass
Shock: Functional	MIL-STD-810G, Method 516.6, Procedure I <ul style="list-style-type: none"> • 40g, 11ms Operating 	Pass
Shock: Transit-Drop 48-inch	MIL-STD-810G, Method 516.6, Procedure IV <ul style="list-style-type: none"> • 26 drops – 48in height on to 2in plywood – non operating • All drops performed on the same unit 	Pass
Shock: Transit-Drop 60-inch	MIL-STD-810G, Method 516.6, Procedure IV <ul style="list-style-type: none"> • 26 drops – 60in height on to 2in plywood – non operating • All drops performed on the same unit that was also subjected to all 48in drops 	Pass
Shock: Transit-Drop 72-inch	MIL-STD-810G, Method 516.6, Procedure IV <ul style="list-style-type: none"> • 26 drops – 72in height on to 2in plywood – non operating • All drops performed on the same unit that was also subjected to all 48in and all 60in drops 	Pass
Freeze / Thaw	MIL-STD-810G, Method 524, Procedure III (Rapid Temperature Change) <ul style="list-style-type: none"> • Test effects include condensation 	Pass
Vehicle Vibration	ASTM D4169-04 (99) Schedule E, Truck Assurance Level II, Operating	Pass

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* Test previously performed using comparable procedure. See [REDACTED] Report 18.04481.13.FR1