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Mechanical Engineering Division
March 31, 2010

SUMMARY OF TESTS PERFORMED

Project Number: 18.04481.17.101

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

Equipment Tested: Panasonic CF-H1 Field

Test Dates: January 2010 – March 2010

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 or for the ability to play an audio/visual file during the test parameter application. A listing of summarized tests and results appear in the accompanying table. Full details will be provided in Report Number 18.04481.17.100.FR1.*

Report Written By:



Eric Dornes
Principal Engineer
Structural Dynamics and Product Assurance Section

Summary of Tests Performed on the Panasonic CF-H1

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
Altitude: Storage/Air Transport	MIL-STD-810G, Method 500.5, Procedure I <ul style="list-style-type: none"> • 40,000ft Non-Operating 	Pass
Altitude: Operation/Air Carriage	MIL-STD-810G, Method 500.5, Procedure II <ul style="list-style-type: none"> • 40,000ft 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"> • 15 minute 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
Sand and Dust: Dust	MIL-STD-810G, Method 510.5, Procedure I <ul style="list-style-type: none"> • Blowing Dust (operating) • Operating temperature of 140°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 140°F 	Pass
Explosive Atmosphere	MIL-STD-810G, Method 511.5, Procedure I	Pass
Vibration: General Vibration – operating	MIL-STD-810G, Method 514.6, Procedure I (Transportation) <ul style="list-style-type: none"> • Panasonic provided conditions (operating) 	Pass
Vibration: General Vibration – non-operating	MIL-STD-810G, Method 514.6, Procedure I (Transportation) <ul style="list-style-type: none"> • Category 24, General minimal integrity (non-operating) 	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), 1 hr. per axis 	Pass

Test Description	Test Parameters	Test Results
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), 2 hours per axis 	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
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 – 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 – 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 – 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