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Mechanical Engineering Division
April 22, 2014

SUMMARY OF TESTS PERFORMED

Project Number: 18.04481.25.101

Company: Panasonic System Communications Company
Two Riverfront Plaza
Newark, NJ 07102
Attn: Mauricio Del Valle

Equipment Tested: Panasonic FZ-M1 Tablet Computer

Test Dates: March 6, 2014 – March 26, 2014

Notes: *The test item was evaluated for ability to boot into the Windows 8 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 18.04481.25.100.FR1.*

Report Written By:



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Structural Dynamics and Product Assurance Section

Summary of Tests Performed on the Panasonic FZ-M1 Tablet Computer

Test Description	Test Parameters	Test Results
Altitude: Storage/Air Transport	MIL-STD-810G, Method 500.5, Procedure I <ul style="list-style-type: none"> 40,000ft Non-Operating 	PASS: Completed 3/18/14
Altitude: Operation/Air Carriage	MIL-STD-810G, Method 500.5, Procedure II <ul style="list-style-type: none"> 40,000ft Operating 	PASS: Completed 3/18/14
High Temperature: Storage	MIL-STD-810G, Method 501.5, Procedure I <ul style="list-style-type: none"> 160°F Non-Operating, 7 days 	PASS: Completed 3/17/14
High Temperature: Operation	MIL-STD-810G, Method 501.5, Procedure II (constant) <ul style="list-style-type: none"> 140°F Operating 	PASS: Completed 3/19/14
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) 	PASS: Completed 3/21/14
Low Temperature: Storage	MIL-STD-810G, Method 502.5, Procedure I <ul style="list-style-type: none"> -60°F Non-Operating 	PASS: Completed 3/17/14
Low Temperature: Operation	MIL-STD-810G, Method 502.5, Procedure II <ul style="list-style-type: none"> -20°F Operating 	PASS: Completed 3/17/14
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: Completed 3/20/14
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: Completed 3/19/14
Rain: Drip	MIL-STD-810G, Method 506.5, Procedure III <ul style="list-style-type: none"> 15 minute exposure, drip test 	PASS: Completed 3/18/14
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: Completed 3/17/14
Sand and Dust: Dust	MIL-STD-810G, Method 510.5, Procedure I <ul style="list-style-type: none"> Blowing Dust (non-operating) Non-Operating temperature of 160°F 	PASS: Completed 3/19/14
Sand and Dust: Sand	MIL-STD-810G, Method 510.5, Procedure II <ul style="list-style-type: none"> Blowing Sand (non-operating) Non-Operating temperature of 160°F 	PASS: Completed 3/19/14
Explosive Atmosphere	MIL-STD-810G, Method 511.5, Procedure I	PASS: Completed 3/14/14
Vibration: General Vibration – operating	MIL-STD-810G, Method 514.6, Procedure I (Transportation) <ul style="list-style-type: none"> Panasonic provided conditions (operating) 	PASS: Completed 3/26/14
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: Completed 3/24/14

Test Description	Test Parameters	Test Results
Vibration: Helicopter – operating	MIL-STD-810G, Method 514.6, Procedure I (Transportation) <ul style="list-style-type: none"> • Helicopter Minimum Integrity (operating) 	PASS: Completed 3/25/14
Vibration: Helicopter – non-operating	MIL-STD-810G, Method 514.6, Procedure I (Transportation) <ul style="list-style-type: none"> • Helicopter Minimum Integrity (non-operating) 	PASS: Completed 3/25/14
Shock: Functional	MIL-STD-810G, Method 516.6, Procedure I <ul style="list-style-type: none"> • 40g, 11ms - Operating 	PASS: Completed 3/26/14
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: completed 3/7/14
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 	PASS: completed 3/7/14
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 	PASS: completed 3/7/14
Freeze / Thaw	MIL-STD-810G, Method 524, Procedure III (Rapid Temperature Change) <ul style="list-style-type: none"> • Test effects include condensation and fog 	PASS: completed 3/24/14