Testing is performed at an internationally recognized, independent research, engineering and evaluation laboratory who by contractual agreement with their clients does not allow the use of their name or logo because doing so may imply an endorsement of products or services. For this reason, all references to said independent third party lab have been removed. Should you require the full unedited version, please contact the company identified below.

Mechanical Engineering Division
April 08, 2016
January 31, 2017 (re-issue)

SUMMARY OF TESTS PERFORMED

Project Number: 18.04481.30
18.04481.36

Company: Panasonic System Communications Company
Two Riverfront Plaza
Newark, NJ 07102
Attn: Pala Vachirabanjong

Equipment Tested: Panasonic FZ-Q1 & FZ-Q2 Tablet Portion

Test Dates: March 2, 2016 – April 8, 2016

Notes: *The FZ-Q1 was evaluated for ability to boot into the Windows® 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.*

The Panasonic FZ-Q2 is comprised of a tablet portion and a docking keyboard portion. The tablet portion of the FZ-Q2 is identical in form, fit, and function to the FZ-Q1. Based on the photographic evidence and statement of equivalency provided by Panasonic, it is asserted that the test results for the FZ-Q1 contained in Report 18.04481.30.FR1 are also applicable to the tablet portion of the FZ-Q2 product. The validity of this statement assumes that the configuration options attributed to the FZ-Q1 would match those selected for the tablet portion of the FZ-Q2.

Full details will be provided in Report Number 18.04481.30.100.FR1.

Report Written By: Eric Dornes

Eric Dornes
Principal Engineer
Structural Dynamics and Product Assurance Section

Summary of Tests Performed on the Panasonic FZ-Q1

Test Description	Test Parameters	Test Results
Altitude: Storage/Air Transport	MIL-STD-810G, Method 500.5, Procedure I • 15,000ft Non-Operating	PASS
Altitude: Operation/Air Carriage	MIL-STD-810G, Method 500.5, Procedure II • 40,000ft Operating	PASS
High Temperature: Storage	MIL-STD-810G, Method 501.5, Procedure I • 160°F Non-Operating, 7 days	PASS
High Temperature: Operation	MIL-STD-810G, Method 501.5, Procedure II (constant) • 140°F Operating	PASS
Low Temperature: Storage	MIL-STD-810G, Method 502.5, Procedure I • -60°F Non-Operating	PASS
Low Temperature: Operation	MIL-STD-810G, Method 502.5, Procedure II • 32°F Operating	PASS
Temperature Shock	MIL-STD-810G, Method 503.5, Procedure I • From 160°F to -60°F, three cycles	PASS
Humidity	MIL-STD-810G, Method 507.5, Procedure II (Aggravated) • Temp. cycles 86°F to 140°F; 95%RH	PASS
Sand and Dust: Dust	• MIL-STD-810G, Method 510.5, Procedure I • Blowing dust concentration of 0.3±0.2g/ft^3 (10.6±7g/m^3) • Operating temperature of 140°F	PASS
Sand and Dust: Sand	MIL-STD-810G, Method 510.5, Procedure II • Blowing sand concentration of 0.06±0.015g/ft^3 (2.2±0.5 g/m^3) • Operating temperature of 140°F	PASS
Vibration: General Vibration – operating	MIL-STD-810G, Method 514.6, Procedure I (Transportation) • Category 4, Typical mission/field transportation scenario, Figure 514.6C-1, 2hr/axis • Category 20, Ground vehicles – Ground mobile, Composite wheeled vehicles, Figure 514.6C-3, 2hr/axis	PASS
Vibration: General Vibration – non-operating	MIL-STD-810G, Method 514.6, Procedure I (Transportation) • Category 24, General minimum integrity (non-operating), 1hr/axis	PASS
Shock: Functional	MIL-STD-810G, Method 516.6, Procedure I • 40g, 11ms - Operating	PASS
Shock: Transit-Drop 30-inch	MIL-STD-810G, Method 516.6, Procedure IV • 26 drops – 30in height on to 2in plywood – operating • All drops performed on the same unit	PASS
IP5x	IEC 60529 (2001) • Against ingress of solid foreign objects: Dust Protected	PASS