



Fujitsu STYLISTIC® Q737 Hybrid Tablet PC

Environmental MIL-STD-810G w/Change 1 Testing Summary

P/N: 5089-2016-2-0040

REV: A

| Equipment tested | Fujitsu STYLISTIC Q737 | |
|---------------------------------|---|---|
| Independent test company | Quanta Laboratories, 3199 De La Cruz Boulevard, Santa Clara, CA95054 http://www.quantalabs.com/ | American Association for Laboratory Accreditation: Certificate #2454.01 (Valid to August 31,2018) |
| Independent test company | Element Materials Technology Minneapolis LLC 9725 Girard Ave, South Minneapolis, MN 55431 http://www.element.com/locations/usa/minneapolis | American Association for Laboratory Accreditation: Certificate #1719.01 (Valid to August 31,2017) |



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Notes: All environmental testing listed in the table below was performed and reported independently by accredited testing companies listed above.

Documented MIL-STD-810G testing guidelines were followed, a summary listing of the tests are presented in the following table.

STYLISTIC Q737 Hybrid Tablet PC MIL-STD-810G Testing Summary Table

| # | Test Listing | Test Method | Description/Parameters | Result ^{1,2} |
|---|----------------------|---|---|-----------------------|
| 1 | Altitude | MIL-STD-810G Method 500.6 Procedures I & II | Storage/Air Transport test at 30,000 ft, duration 1 hour, unit is non-operational Operational/Air Carriage test at 15,000 ft, duration 1 hour, unit is operational | Pass |
| 2 | Low temperature | MIL-STD-810G Method 502.6 Procedures I & II | Non-operational test at -30°C, duration 7 hours, unit is non-operational Operational test at -20°C, duration 5 hours, unit is operational | Pass |
| 3 | High temperature | MIL-STD-810G Method 501.6 Procedures I & II | Constant temperature Non-operational test at +70°C duration 4 hours, unit is non-operational Operational test at +60°C duration 4 hours, unit is operational | Pass |
| 4 | Humidity | MIL-STD-810G Method 507.6 Procedure II | Aggravated humidity. Temperature cycled between 30°C and 60°C Test duration: ten 24-hours cycles. Relative humidity maintained at 95% Unit is non-operational, functional test after 5th and 10th cycles | Pass |
| 5 | Functional shock | MIL-STD-810G Method 516.7 Procedure I | 3 shocks, ± per axis. Non-operational test - 40G, 11ms, saw-tooth pulse configuration, unit is non-operational Operational test - 20G, 11 ms, half sine wave configuration, unit is operational | Pass |
| 6 | Vibration, integrity | MIL-STD-810G Method 514.7 Category 24 | Non-operational test, Minimum integrity test 20-2000Hz; 20-1000 Hz at 0.04G ² /Hz, 1000-2000Hz at 6dB, overall 7.7G RMS; test profile see in figure 514.7E-1. Test duration: 1 hours x 3 axis. Unit is non-operational | Pass |
| 7 | Vehicle Vibration | MIL-STD-810G Method 514.7 Category 4 | Operational test - Ground vehicle, US Highways 1,000 miles of transportation, test profile see figure 514.7C-2 and table 514.7C-1. Test duration: 1 hours x 3 axis. Unit is operational. | Pass |
| 8 | Blowing Dust | MIL-STD-810G Method 510.6 Procedure I | Dust density 10±7 g/m ³ , air velocity 8.9m/s, 140 mesh silica flower. Non-operational test duration 6 hours at 23°C ambient. Unit is non-operational. Operational test duration 6 hours at 35°C ambient. Unit is operational. | Pass |
| 9 | Transit Drop | MIL-STD-810G Method 516.7 Procedure IV | Non-operational test, transit drop from 3 feet height for Q737 tablet only and Q737 tablet with dock on 2" plywood. One drop each on 4 corners, 8 edges, 6 faces on a single test unit. | Pass * |

¹Pass for Operational test indicates that unit remained operational during the entirety of the test. After the test ran and verified one complete pass of Fujitsu proprietary diagnostic software.

²Pass for Non-operational test indicates that after the test unit powered, booted to Windows OS, ran and verified one complete pass of Fujitsu proprietary diagnostic software.

* STYLISTIC Q737 units tested with dock & tablet only mode separately. Both units passed functional performance test after each drop and remained operational after all tests were completed. Some mechanical damage was observed.

Contact

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