

Fujitsu STYLISTIC® Q509 Hybrid Tablet PC

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

P/N: 5089-2019-0031

REV: B

Equipment tested	Fujitsu STYLISTIC Q509	
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 31,2020)
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 31,2019)



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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 Q509 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 -51°C, duration 7 hours, unit is non-operational Operational test at -29°C, duration 4 hours, unit is operational	Pass
3	High temperature	MIL-STD-810G Method 501.6 Procedures I & II	Non-operational test, temperature cycled between +35°C and +71°C Test cycled 24 hours; test consisted of seven cycles 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 6th 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-I. 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 48" height for Q509 tablet only and Q509 tablet with Keyboard on 2" plywood over steel over concrete. 26 drops on each corner, edge and face 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.

* Test unit 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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