



# Fujitsu LIFEBOOK® U729X Hybrid Tablet PC

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

P/N: 5089-2019-0030

REV: B

Equipment tested	Fujitsu LIFEBOOK U729X	
Independent test company	Quanta Laboratories, 3199 De La Cruz Boulevard, Santa Clara, CA95054 <a href="http://www.quantalabs.com/">http://www.quantalabs.com/</a>	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 <a href="http://www.element.com/locations/usa/minneapolis">http://www.element.com/locations/usa/minneapolis</a>	American Association for Laboratory Accreditation: Certificate #1719.01 (Valid to August 31,2019)



Fujitsu LIFEBOOK U729X Tablet PC

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.

## LIFEBOOK U729X Hybrid Tablet PC MIL-STD-810G Testing Summary Table

#	Test Listing	Test Method	Description/Parameters	Result <sup>1,2</sup>
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	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 <sup>2</sup> /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 <sup>3</sup> , air velocity 8.9m/s, 140 mesh silica flower. Non-operational test duration 6 hours at 24°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 42" height on 2" plywood. One drop each on 4 corners, 8 edges, 6 faces on a single test unit. Unit is closed and non-operational.	Pass *

<sup>1</sup>Pass 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.

<sup>2</sup>Pass 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

FUJITSU LIMITED  
Address: 4-1-1, Kamikodanaka, Nakahara-ku,  
Kawasaki 211-8588, JAPAN  
Telephone: +81-(0)3-5462-9825  
Website: <http://www.fujitsu.com>

#### Disclaimer

© 2019 Fujitsu Limited All rights reserved.

[Fujitsu, the Fujitsu logo and LIFEBOOK are trademarks or registered trademarks of Fujitsu Limited in JAPAN and other countries. All other trademarks referenced herein are the property of their respective owners.](#)

The information in this document is subject to change without notice.

Fujitsu Limited makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

Test results are not a guarantee of future performance under identified test conditions, nor does it imply that it will meet the contract requirements of Department of Defense.