

CERTIFICATE OF COMPLIANCE
Certification Number : ESL119688A-C810H

Company: Getac Inc.

Equipment Tested: Getac X600 Rugged Notebook Computer

Test Standard: MIL-STD-810H w/ Change 1

Details: This is to certify that the following environmental tests have been performed on the **Getac X600 Rugged Notebook Computer** and found to be in compliance with the requirements and Procedure of **MIL-STD-810H w/ Change 1** detailed in the following summary table.

No evidence of functional failure was observed during testing.

All calibrated Test equipment utilized during testing is maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

For further test details please reference the Eurofins Electrical and Electronic Testing NA, Inc. test report, ESL119688A-MIL.



Johnnie Evans
Manager, Environmental Laboratory
Eurofins Electrical and Electronic Testing NA, Inc.

January 26, 2023
Date

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The table below is to show that the following environmental testing was performed on the **Getac X600 Rugged Notebook Computer** and is in compliance with the requirements of MIL-STD-810H w/ Change 1 below;

Test	Procedure Specification	MIL-STD-810H w/ Change 1 Reference	Pass/Fail
Altitude (Low Pressure)-Storage/Air Transport	Non-operating: 50,000ft with altitude change rate 2,000 ft/min.	Method 500.6 Procedure I	Pass
Altitude (Low Pressure)-Operation/Air Carriage	Operating: 50,000ft with altitude change rate 2,000 ft / min	Method 500.6 Procedure II	Pass
High temperature-Storage	Seven 24 hour cycles of 33-71°C (91– 160°F) (Non-operating)	Method 501.7 Procedure I	Pass
High temperature-Operation	72 hours constant temperature exposure 63°C (145°F) (Operating)	Method 501.7 Procedure II	Pass
High temperature-tactical standby to operational	High storage (non-operating) to high operating (test for operation) 71C(160° F) Standby, 63C(145° F) Operating	Method 501.7 Procedure III	Pass
Low temperature-Storage	72 hours constant temperature exposure -51.1° C (-60° F)	Method 502.7 Procedure I	Pass
Low temperature-Operation	72 hours constant temperature exposure -29°C (-20° F) / -31.7C (-25F) -29C (-20° F) operating on battery mode -31.7C (-25° F) operating on AC mode	Method 502.7 Procedure II	Pass
Temperature shock	Multi-cycle shocks from constant extreme temperature: -51.1°C~82°C (-60° F~179.6° F), temperature shock non-operating, three cycles	Method 503.7 Procedure I -C	Pass
Contamination by Fluids	22 fluids completed	Method 504.3	Pass
Solar Radiation	Cyclic heat, 7 days	Method 505.7 Procedure I	Pass
Blowing Rain	Blowing Rain- 5.8in/hr rain, 70mph wind, 30 minutes per surface	Method 506.6 Procedure I	Pass
Rain Drip	Rain Drip, 15 minute exposure (280L/m2/hr)	Method 506.6 Procedure III	Pass
Humidity	Cycle B3 for normal test duration of Natural Cycle (15 days) and Induced cycles (15 days)	Method 507.6 Procedure I	Pass
Humidity- Aggravated	Ten 24-hour temperature cycles between 30°C (86°F) and 60°C (140°F) with relative humidity maintained at 95% RH non-operating mode	Method 507.6 Procedure II	Pass
Salt Fog	24 hours of salt fog soaking followed by a 24 hour drying period. Repeated for a total of two cycles	Method 509.8 Procedure I	Pass
Sand and Dust: Blowing dust	Dust resistance using Silica flour with 6 hours at 23°C and an additional 6 hours at 63°C	Method 510.7 Procedure I	Pass
Sand and dust: Blowing sand	Blowing sand with a Sand concentration of 2.2+-0.5g/m^3 at 63C	Method 510.7 Procedure II	Pass
Explosive Atmosphere	Operating for altitude 20,000 ft and temperature of 63°C (145°F)	Method 511.7 Procedure I	Pass
Vibration- General vibration	Category 20, Ground vehicles - Ground mobile, composite wheeled vehicles, Figure 514.8C-6, 2hr/ axis (Transportation)	Method 514.8 Category 20, figure C-6 (Operation)	Pass
Vibration- General vibration	Category 4, Typical mission/field transportation scenario, common carrier Figure 514.8C-2, 2hr/ axis (Transportation)	Method 514.8, Procedure I Category 4	Pass
Vibration- General vibration	Category 5, Loose cargo (Transportation)	Method 514.8, Procedure II, Category 5	Pass
Vibration- General vibration	Under Fig 514.8 E-1 General min. integrity exposure for non-operating	Method 514.8, Procedure I, Category 24	Pass
Shock- Functional shock	40g, 11ms , Terminal Saw tooth, Operating	Method 516.8 Procedure I	Pass
Shock- Functional shock	Peak Acceleration of 75g's, Effective Shock Duration of 8-13ms, and Cross-Over Frequency of 80Hz	Method 516.8 Procedure I	Pass
Shock: Transit drop	26 total drops from 48 in height, free drop onto 2 in of plywood while operating	Method 516.8 Procedure IV	Pass
Shock: Transit drop in packaging	26 total drops from 36 in height, transit drop onto 2 in of plywood (Non-operating)	Method 516.8 Procedure IV	Pass
Shock: Bench Handling	4 drops on solid wooden bench top in operating mode	Method 516.8 Procedure VI	Pass
Freeze / Thaw	Rapid Temperature Change for 3 cycles	Method 524.1 Procedure III	Pass

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