

CERTIFICATE OF COMPLIANCE
Certification Number: ESL106732A-C810H Rev. 4

Company: Getac Inc.

Equipment Tested: Getac B360 Rugged Notebook Computer

Test Standard: MIL-STD-810H

Testing Completed: March 20, 2020

Details: This is to certify that the following environmental tests have been performed on the **Getac B360 Rugged Notebook Computer** and found to be in compliance with the requirements and procedures of **MIL-STD-810H** 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 MET Laboratories Inc. test report, ESL106732A-MIL Rev. 4.



Johnnie Evans
Manager, Environmental Laboratory
Eurofins MET Laboratories Inc.

July 9, 2020
Date



James Ducey
Project Engineer, Environmental Laboratory
Eurofins MET Laboratories Inc.

July 9, 2020
Date

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The table below is to show that the following environmental testing was performed on the **Getac B360 Rugged Notebook Computer** and is in compliance with the requirements of MIL-STD-810H below:

Test	Procedure Specification	MIL-STD-810H Reference	Pass/Fail
Low Pressure (Altitude) – Storage/Air Transport	Non-operating: 50,000ft with altitude change rate 2,000 ft/min.	Method 500.6 Procedure I	Pass
Low Pressure (Altitude) – Operation/Air Carriage	Operating: 50,000ft with attitude 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 Induced (Storage and Transit) C3 – Severe Cold	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 – Non-Operation	Multi-cycle shocks from constant extreme temperature: -51.1°C~93.3°C (-60° F~200° F), temperature shock non-operating, three cycles	Method 503.7 Procedure I-C	Pass
Contamination by Fluids – Non-Operation	30 fluids, intermittent contamination exposure	Method 504.3	Pass
Solar Radiation (Sunshine) – Cycling (Thermal Effects)	Cyclic heat, 7 days	Method 505.7 Procedure I	Pass
Blowing Rain – Operation	Blowing Rain- 5.8in/hr rain, 70mph wind, 30 minutes per surface	Method 506.6 Procedure I	Pass
Rain – Drip – Operation	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 – Non-Operation	Ten 24-hour temperature cycles between 30°C and 60°C with relative humidity maintained at 95% RH non-operating mode	Method 507.6 Procedure II	Pass
Salt Fog – Non-Operation	24 hours of salt fog soaking followed by a 24 hour drying period. Repeated for a total of two cycles	Method 509.7	Pass
Sand and Dust: Blowing Dust – Operation	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 – Operation	Blowing sand with a Sand concentration of 2.2+/-0.5g/m³ at 63C for 7.5 hours	Method 510.7 Procedure II	Pass
Explosive Atmosphere – Operation	Operating for altitude 20,000 ft and temperature of 63°C (145°F)	Method 511.7 Procedure I	Pass ¹
Vibration- General vibration – Non-Operation	Under Fig 514.8 E-1 General min. integrity exposure for non-operating	Method 514.8 Procedure I - Category 24	Pass
Vibration- General vibration – Non-Operation	Category 5, Loose cargo (Transportation)	Method 514.8 Procedure I - Category 5	Pass
Vibration- General vibration – Operation	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 – Operation	Category 20, Ground vehicles - Ground mobile, composite wheeled vehicles, Figure 514.8C-6, 2hr/ axis (Transportation)	Method 514.8 Procedure I, Category 20, figure C-6 (Operation)	Pass
Shock- Functional shock – Operation	40g, 11ms , Terminal Saw tooth, Operating	Method 516.8 Procedure I	Pass
Shock- Functional shock – Operation	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 – Operation	26 total drops from 48 in height, free drop onto 2 in of plywood while operating Use the same unit to test 48 and 60 and 72 inch drop test	Method 516.8 Procedure IV	Pass

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Test	Procedure Specification	MIL-STD-810H Reference	Pass/ Fail
Shock: Transit drop – Operation	26 total drops from 60 in height, free drop onto 2 in of plywood while operating Use the same unit to test 48 and 60 and 72 inch drop test	Method 516.8 Procedure IV	Pass
Shock: Transit drop – Operation	26 total drops from 72 in height, free drop onto 2 in of plywood while operating. Use the same unit to test 48 and 60 and 72 inch drop test	Method 516.8 Procedure IV	Pass
Shock – Bench Handling Operation	4 drops on solid wooden bench top in operating mode	Method 516.8 Procedure VI	Pass
Freeze / Thaw – Operation	Rapid Temperature Change for 3 cycles	Method 524.1 Procedure III	Pass

Note 1: Test performed at NTS, NTS Huntsville 7800 Highway 20 West Huntsville, AL 35806. Please see Appendix of test report for test data.