

CERTIFICATE OF COMPLIANCE
Certification Number : ESL122041A-C810H (V110)

Company: Getac Inc.

Equipment Tested: Getac V110 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 V110 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, ESL122041A-MIL.



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

October 4, 2022
Date

CERTIFICATE OF COMPLIANCE: Certification Number: ESL122041A-C810H (V110)

The table below is to show that the following environmental testing was performed on the **Getac V110 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
Low Pressure (Altitude) - Storage/Air Transport	Non-operating: 50,000ft with altitude change rate 2,000 ft/min.	Method 500.6 Procedure I	Pass ¹
Low Pressure (Altitude)- Operation/Air Carriage	Operating: 50,000ft with attitude change rate 2,000 ft/ min	Method 500.6 Procedures II	Pass ¹
High Temperature-Storage	Seven 24 hour cycles of 33 ~ 71 ° C (91-160° F) (Non-operating)	Method 501.7 Procedures I	Pass ¹
High Temperature-Operation	72 hours constant temperature exposure 63 ° C (145° F) (Operating)	Method 501.7 Procedures II	Pass ¹
High Temperature – Tactical- Standby to Operational	High storage (non-operating) to high operating (test for operation) 71°C(160° F) Standby, 63°C (145°F) Operating)	Method 501.7 Procedures III	Pass ¹
Low Temperature-Storage	72 hours constant temperature exposure -51.1° C (-60° F)	Method 502.7 Procedure I, Induced (Storage and Transit) C3 - Severe Cold	Pass ¹
Low Temperature-Operation	72 hours constant temperature exposure -29° C (-20° F)	Method 502.7 Procedures II	Pass ¹
Temperature Shock	Multi-cycle shocks from constant extreme temperature: -51.1°C~ 71°C (-60° F~160° F), temperature shock non-operating, three cycles	Method 503.7 Procedure I -C	Pass ¹
Solar Radiation	Cyclic heat, 7 days	Method 505.7 Procedure I	Pass ¹
Blowing rain	Blowing rain- 5.8in/hr rain, 70mph wind, 30 minutes per surface	Method 506.6 Procedure I	Pass ¹
Rain Drip	Rain Drip, 15 minute exposure (280L/m2/hr)	Method 506.6 Procedure III	Pass ¹
Humidity- Aggravated	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 ¹
Humidity- Aggravated	Ten 24-hour temperature cycles between 30°C and 60°C with relative humidity maintained at 95% RH operating mode	Method 507.6 Procedure II	Pass ¹
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 ¹
Sand and Dust: Blowing Dust	Dust resistance using silica flour with 6 hours at 23°C and an additional 6 hours at 63°C(145 ° F)	Method 510.7 Procedure I	Pass ¹
Sand and Dust: Blowing Sand	Blowing sand with a Sand concentration of 2.2+/-0.5g/m^3 at 63°C(145° F)	Method 510.7 Procedure II	Pass ¹
Explosive Atmosphere	Operating for altitude 20,000 ft and temperature of 63°C (145°F)	Method 511.7 Procedure I	Pass ¹
Vibration- General Vibration	Under fig 514.8 E-1 General min. Integrity exposure for non-operating	Method 514.8 Procedure I Category 24	Pass ¹
Vibration- General vibration	Category 5, Loose cargo (Transportation)	Method 514.8 Procedure II, Category 5	Pass ¹
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 ¹
Vibration- General vibration	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 ¹
Shock- Functional Shock	40g, 11ms , Terminal Saw tooth, Operating	Method 516.8 Procedure I	Pass ¹
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 ¹
Shock: Transit drop	All drops performed on one unit: 26 total drops from 48 in height, free drop onto 2 in of plywood.	Method 516.8 Procedure IV	Pass ¹
Shock: Bench Handling	4 drops on solid wooden bench top in operating mode	Method 516.8 Procedure VI	Pass ¹
Freeze / Thaw	Rapid Temperature change for 3 cycles	Method 524.1 Procedure III	Pass ¹

Note: Project Amendment Request for Eurofins Electrical and Electronic Testing NA, Inc. JOB # ESL106963A-C810H (V110) Rev. 1

Note 1: Originally tested under Eurofins Electrical and Electronic Testing NA, Inc. JOBS # ESL106963A-C810H

Eurofins E&E Certificate Number: ESL122041A-C810H (V110)