

Test Certification Letter
65206-22

Certification prepared for	Getac Inc. 15495 Sand Canyon Avenue; #350 Irvine, CA 92618		
Attention	Alicia Chen		
Test start	3/8/2024	Test completion	4/8/2024
Purchase order number	0128202401	Purchase date	1/19/2024
As received	This document describes procedures and results of testing performed to the specification(s) and/or requirement(s) detailed herein. The results described in this report relate only to the specific items as received and tested.		
Decision rule	Whenever stating in/out of tolerance or pass/fail results, Element applies "Simple Acceptance"; statements of compliance do not consider measurement uncertainty.		

Device	Getac S510
Model/part number	Getac S510 / 5262GA890008
Serial number	RPCXXS0043, RPCXXS0044, RPCXXS0054, RPCXXS0055, RPCXXS0056, RPCXXS0057, RPCXXS0058, RPCXXS0059, RPCXXS0060, RPCXXS0066, RPCXXS0067

The results of this test apply only to the units identified in this Engineering Report by device identifier and model / part number, or serial number.

Element certifies that the Getac S510 was subjected to Environmental Tests as specified in MIL-STD-810H w/Change 1 and ASTM D4169-16, Section 12.4, as requested in Getac purchase order 0128202401, dated January 19, 2024.



Drew Beier, Technical Writer



Nathan R. Simmons, Operations Manager

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Test	Procedure Specification		MIL-STD-810H Reference	Results
Altitude (Low Pressure)- Storage/Air Transport	40,000ft with altitude change rate 2,000 ft/min	Non-operating	Method 500.6 Procedures I	Compliant
Altitude (Low Pressure)- Operation/Air Carriage	40,000ft with altitude change rate 2,000 ft/min	Operating	Method 500.6 Procedures II	Compliant
High Temperature-Storage	Seven 24-hour cycles of 33-71°C (91–160°F)	Non-operating	Method 501.7 Procedures I	Compliant
High Temperature-Operation	72 hours constant temperature exposure 63°C (145°F)	Operating	Method 501.7 Procedures II	Compliant
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	Non-operating to Operating	Method 501.7 Procedures III	Compliant
Low Temperature-Storage	72 hours constant temperature exposure -51.1° C (-60° F)	Non-operating	Method 502.7 Procedure I	Compliant
Low Temperature-Operation	72 hours constant temperature exposure -29° C (-20° F)	Operating	Method 502.7 Procedures II	Compliant
Temperature Shock	Multi-cycle shocks from constant extreme temperature: -51.1°C~71°C (-60° F~160° F), temperature shock, three cycles	Non-operating	Method 503.7 Procedure I -C	Compliant
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	Method 507.6 Procedure II	Compliant
Sand and Dust: Blowing Dust	Dust resistance using Silica flour with 6 hours at 23°C and an additional 6 hours at 63°C	Operating	Method 510.7 Procedure I	Compliant
Sand and Dust: Blowing Sand	Blowing sand with a Sand concentration of 2.2±0.5g/m³ at 63 °C	Operating	Method 510.7 Procedure II	Compliant
Explosive Atmosphere	Altitude 20,000 ft and temperature of 63°C (145°F)	Operating	Method 511.7 Procedure I	Compliant
Vibration- General Vibration	Category 20, Ground vehicles - Ground mobile, composite wheeled vehicles, Figure 514.8 C-6	Operating	Method 514.8, Procedure I, Category 20	Compliant
Vibration- General Vibration	Category 4, common carrier Figure 514.8 C-2, 2hr/ axis	Operating	Method 514.8, Procedure I Category 4	Compliant
Vibration- General Vibration	Category 5, Loose cargo (Transportation)	Non-operating	Method 514.8, Procedure II, Category 5	Compliant
Vibration- General Vibration	Under Fig 514.8 E-1 General min. integrity exposure	Non-operating	Method 514.8, Procedure I, Category 24	Compliant
Shock- Functional Shock	40g, 11ms, Terminal Saw tooth	Operating	Method 516.8 Procedure I	Compliant
Shock- Functional Shock	40g, 11ms, Terminal Saw tooth	Non-operating	Method 516.8 Procedure I	Compliant
Shock: Transportation Shock	On-road and Off-road shocks from 5.1g, 11ms to 15.2g, 5ms (Table 516.8-VII)	Non-operating	Method 516.8 Procedure II	Compliant
Shock: Transit Drop	All drops performed on one unit: 26 total drops from 36 in height, free drop onto 2 in of plywood.	Operating	Method 516.8 Procedure IV	Compliant
Shock: Crash Hazard Shock Test	Ground and Flight Equipment (Table 516.8-XIII) 2 shocks in each axis.	Non-operating	Method 516.8 Procedure V	Compliant
Shock: Bench Handling	4 drops on solid wooden bench top	Operating	Method 516.8 Procedure VI	Compliant
Freeze / Thaw	Rapid Temperature Change for 3 cycles	Non-operating	Method 524.1 Procedure III	Compliant
Vibration - Random Vibration	Truck Profile, Low / Medium / High Level (item 2 / Procedure E)	Non-operating	ASTM D4169-16	Compliant