



MIL-STD-810G

ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS

Getac computers have been independently certified to comply with MIL-STD-810G.

Military Standards
MIL-STD-810G

	MIL-STD-810G	B300 Notebook	V100 Convertible	M230 Notebook	A790 Notebook	E100 Tablet	PS535F GPS PDA	PS236 GPS PDA
IP67								✓
IP65		✓	✓	✓	✓	✓	✓	
Low Pressure (Altitude): Storage/Air Transport (40,000 ft [18.8kPa] with altitude change rate 2,000 ft/min)	500.5 Procedure I	✓	✓	✓	✓	✓		✓
Low Pressure (Altitude): Operation / Air Carriage (15,000 ft [57.2kPa] with altitude change rate 2,000 ft/min)	500.5 Procedure II	✓	✓	✓	✓	✓		✓
High Temperature: Storage	501.5 Procedure I	33°C~71°C	33°C~71°C	33°C~71°C	33°C~71°C	33°C~75°C	33°C~71°C	33°C~71°C
High Temperature: Operation 60°C	501.5 Procedure II	✓	✓	✓	✓	✓	✓	30°C~63°C 3 cycles
High Temperature: Tactical High Storage to High Operation	501.5 Procedure III	✓	✓					
Low Temperature: Storage	502.5 Procedure I	-51°C	-51°C	-40°C	-40°C	-40°C	-30°C	-40°C
Low Temperature: Operation -20°C	502.5 Procedure II	✓	✓	✓	✓	✓	✓	-30°C
Temperature shock: Storage 3 cycles	503.5 Procedure I-C	80°C~-51°C	71°C~-51°C	71°C~-40°C	71°C~-40°C	60°C~-20°C	71°C~-30°C	71°C~-40°C
Rain-Drip: 15 min exposure (280L/m2/hr)	506.5 Procedure III	✓	✓	✓	✓	✓	✓	
Sand and Dust: Blowing dust Silica flour with 6 hours settling dust	510.5 Procedure I	✓	✓	✓	✓	✓	✓	
Sand and Dust: Blowing sand-perating temperature 60°C	510.5 Procedure II	✓	✓					
Vibration: General Vibration Figure 514.6 E-1 (storage)	514.6 Procedure I Category 24	✓	✓	✓	✓	✓	✓	✓
Vibration: General Vibration Figure 514.6 C1 (operating)	514.6 Procedure I Category 4	✓	✓	✓	✓	✓	✓	C3
Shock: Functional Shock 20g, 11ms, Sawtooth Waveform	516.6 Procedure I					Operating	Operating	
Shock: Functional Shock 40g, 11ms, Sawtooth Waveform	516.6 Procedure I	Operating	Operating	Operating	Operating		Non-Operating	Operating
Shock: Functional Shock 75g, 11ms, Sawtooth Waveform	516.6 Procedure I					Non-Operating		
Shock: Transit Drop 26 drops from 36 in height, free drop onto 2in plywood	516.6 Procedure IV	✓	✓	✓	✓	✓		48 in
Shock: Transit Drop Total 78 continuous drops from 48-72 in height	516.6 Procedure IV	✓	✓					
Shock: Transit Drop 26 drops from 60 in height, free drop onto steel plate for operation	516.6 Procedure IV						✓	
Humidity: Aggravated 30°C~60°C cycled with RH 95%	507.5 Procedure II	✓	✓	✓			✓	✓
Freeze/Thaw Rapid temperature change for 3 cycles	524 Procedure III	✓	✓				✓	✓