

## MIL-STD-810G

### ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS

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

	MIL-STD-810G	B300 Notebook	V100 Convertible	M230 Notebook	A790 Notebook	E100 Tablet	PS535F GPS PDA
IP65		✓	✓				✓
IP54				✓	✓	✓	
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 33°C ~ 71°C	501.5 Procedure I	✓	✓	✓	✓	✓	✓
High Temperature: Operation 60°C	501.5 Procedure II	✓	✓	✓	✓	✓	✓
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
Low Temperature: Operation -20°C	502.5 Procedure II	✓	✓	✓	✓	✓	✓
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
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 – operating 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	✓	✓	✓	✓	✓	✓
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
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	✓	✓	✓	✓	✓	
Shock: Transit Drop Total 78 continuous drops from 48~72in height	516.6 Procedure IV	✓	✓				
Shock: Transit Drop 26 drops from 60in 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	✓	✓				✓