



## ASUS MIL-STD 810H Test Report - ExpertBook B1 (12 gen)

Test Category	Test Method	MIL-STD-810H Test Parameters	Test Result
Altitude Storage/ Air Transport		Test Pressure: Equivalent to cabin altitude of 40,000ft Temperature: -20°C	
	Method 500.6-Procedure I	Duration:12 hour	Pass
7 iii Transport			
		Unit is non-operational during test.	
A latad.a		Test Pressure: Equivalent to cabin altitude of 15,000ft	
Altitude Operation/Air Carriage	Method 500.6-Procedure II	Temperature: 5°C and 40°C	Pass
o poration / in our lago		Duration: 12 hour (5°C) and 12 hour (40°C)	
		Unit is operational during test.	
		Duration: 3 day exposure (3 X 24 hr. cycles)	
High Temperature Operational (Hot Dry)	Method 501.7-Procedure II (A1)	Temperature: 32~49 °C cycling temperature exposure	Pass
Operational (not bry)		Table 501.7-III-Procedure. High temperature cycles, climate category A1 Hot Dry	
		Unit is operational during test.	
	Method 501.7-Procedure I (A1)	Duration: 7 day exposure (7 X 24 hr. cycles)	
High Temperature		Temperature: 33~71 ℃ cycling temperature exposure	Pass
Storage and Transit (Hot Dry)		Table 501.7-III-Procedure. High temperature cycles, climate category A1 Hot Dry	
		Unit is non-operational during test.	
	Method 501.7-Procedure II (A2)	Duration: 3 day exposure (3 X 24 hr. cycles)	
High Temperature		Temperature: 30–43 ℃ cycling temperature exposure	_
Operational (Basic Hot)		Table 501.7-II-Procedure. High temperature cycles, climatic category A2 - Basic Hot	Pass
Operational (basic flot)		Humidity: 14~44%	
		Unit is operational during test.	
High Tonggoods	Method 501.7-Procedure I (A2)	Duration: 7 day exposure (7 X 24 hr. cycles)	
		Temperature: 30–63 °C cycling temperature exposure	
High Temperature Storage and Transit (Basic Hot)		Table 501.7-II-Procedure. High temperature cycles, climatic category A2 - Basic Hot	Pass
otorago ana manor (basio not)		Humidity: 5~44%	
		Unit is non-operational during test.	
		Duration: 7 day exposure (7 X 24 hr. cycles)	
Low Temperature	Malla 1500 7 Barrel at 1(01)	Temperature: -25~ -33°C	Pass
torage and Transit (Basic climatic)	Method 502.7- Procedure I (C1)	Low temperature cycles, Table IX. Basic climatic_C1	
		Unit is non-operational during test.	
	Method 502.7- Procedure II (C1)	Duration: 3 day exposure (3 X 24 hr. cycles)	
Low Temperature Operational (Basic climatic)		Temperature: -21~ - 32°C	Pass
		Low temperature cycles, Table IX. Basic climatic_C1	
		Unit is operational during test.	
		Duration: 7 day exposure (7 X 24 hr. cycles)	
	Method 502.7- Procedure I (C2)	Temperature: -37~ -46°C	
Low Temperature		Low temperature cycles, Table XI. Cold climatic_C2	Pass
Storage and Transit (Cold climatic)		Wind speed less than 5m/s(11mph)	1 000
		Unit is non-operational during test.	
		Duration: 3 day exposure (3 X 24 hr. cycles)	
		Temperature: -37 ~ -46 °C	
Low Temperature	Method 502.7- Procedure II (C2)	•	Pass
Operational (Cold climatic)	wethou 502.7- Procedure II (C2)	Low temperature cycles, Table XI. Cold climatic_C2  Wind speed less than Em/s/11mph)	Fa55
		Wind speed less than 5m/s(11mph)	
		Unit is operational during test.	
Humidity Aggravated Cycle	Method 507.6- Procedure II	Cyclic per Figure 507.6-7 (Aggravated Cycle)	
		Duration:10 Days	5
		Temperature: (30 °C and 60 °C)	Pass
		Humidity: 95% RH, constant	
		Unit is non-operational during test.	
	Method 510.7- Procedure II	Particle density:1.2g/m^3	
Sand and Dust		Air velocity:28m/s	Pass
		Operating temperature of 60°C	
	Mark attacks	Frequency 10-500Hz, Vertical rms = 1.04 g	
	Method 514.8- Procedure I (Table514.8C-I)	Transverse rms = 0.02g, Longitudinal rms = 0.74g	Pass
	(18010314.001)	Test Time: 60 minutes per axis (US highway truck vibration exposure)	
Vibration	Method 514.8- Procedure I	Frequency 5-500Hz, Vertical rms = 4.43 g	
		Transverse rms = 1.30g, Longitudinal rms = 2.86g	Pass
	(Table514.8C-IV)		

	Method 514.8- Procedure I (Table514.8C-VII)	Frequency 5-500Hz, Vertical rms = 2.24 g	Pass
		Transverse rms = 1.48g, Longitudinal rms = 1.90g	
		Test Time: 40 minutes per axis	
	Method 516.8- Procedure I	Functional Shock	Pass
Shock		Operational 3 shocks/axis/direction for a total of 18 shocks; 40 Gs peak, 11 ms	F d33
		Transportation shock- On road (5000Km)	
	Method 516.8- Procedure II	Amplitude : 5.1 $\sim$ 7.6 G-Pk , Number of Shocks: 3 $\sim$ 42 times	
		Pulse Duration: 11ms	Pass
		Terminal Peak Sawtooth	
		Non-OP/ Package	
	Method 516.8- Procedure III	Fragility	
		Non-operational 3 shocks/axis/direction for a total of 18 shocks	Pass
		30-50 Gs peak, Trapezoidal pulse(772cm/s, 10G/each stage)	
	Method 516.8- Procedure V	Crash Hazard Shock Test	
		2 shocks/axis/direction for a total of 12 shocks	Pass
		75 Gs peak, 6 ms/Terminal Peak Sawtooth/unpackage nop	
		Bench Handling	
	Method 516.8- Procedure VI	(Drop Height : 100 mm)	Pass
		Unit is operational during test.	
Mechanical Vibrations of Shipboard Equipment	Method 528.1- Procedure1 (Type 1)	Environmental Vibration	Pass
		4~33 Hz/ 2Hours	1° d55

<sup>1.</sup> The testing regimen includes the requirements of both military-grade standards and ASUS quality tests, and varies depending on device. MIL-STD-810 testing is conducted on selected ASUS products only. These tests do not demonstrate fitness for military use, or adherence to US Department of Defense (DoD) contract requirements. Similarly, the test results should not be considered an indication or guarantee of future performance under the specified test conditions. Damage occurring under these test conditions – or any attempt to replicate them – would be considered accidental, and would not be covered by the standard ASUS warranty. Additional coverage is available with ASUS Premium Care.