ASUS MIL-STD 810H Test Report - CX1500FKA

Test Category	Test Method	MIL-STD-810H Test Parameters	Test Result
Altitude Storage/ Air Transport	Method 500.6 Procedure I	Test Pressure: Equivalent to cabin altitude of 40,000ft Temperature: -20°C Duration:12 and 12 hour Unit is non-operational during test	Pass
Altitude Operation/Air Carriage	Method 500.6 Procedure II	Test Pressure: Equivalent to cabin altitude of 15,000ft Temperature: 5°C and 40°C Duration:12 and 12 hour Unit is operational during test	Pass
High Temperature Storage and Transit (Hot Dry)	Method 501.7 Procedure I	Table 501.7-III-Procedure I High temperature cycles, climate category A1 Hot Dry Temperature:33°C~71°C Duration: 7 day exposure (7 X 24 hr. cycles) Unit is non-operational during test	Pass
High Temperature Storage and Transit (Basic Hot)	Method 501.7 Procedure I	Table 501.7-II.Procedure I High temperature cycles, climatic category A2 - Basic Hot Temperature:30°C~63°C Duration: 7 day exposure (7 X 24 hr. cycles) Humidity: 5~44% Unit is non-operational during test	Pass
High Temperature Operational (Hot Dry)	Method 501.7 Procedure II	Table 501.7-III-Procedure II High temperature cycles, climate category A1 Hot Dry Temperature: 32~49°C cycling temperature exposure Duration: 3 day exposure (3 X 24 hr. cycles) Unit is operational during test	Pass
High Temperature Operational (Basic Hot)	Method 501.7 Procedure II	Table 501.7-II.Procedure II High temperature cycles, climatic category A2 - Basic Hot Temperature: 30~43°C cycling temperature exposure Duration: 3 day exposure (3 X 24 hr. cycles) Humidity: 14~44% Unit is operational during test	Pass
Low Temperature Storage and Transit (Basic climatic)	Method 502.7 Procedure I	Table IX. Basic climatic_C1,Procedure I, Low temperature cycles Temperature: -25~ -33°C Duration:7 day exposure (7 X 24 hr. cycles) Unit is non-operational during test	Pass
Low Temperature Storage and Transit (Cold climatic)	Method 502.7 Procedure I	Table XI. Cold climatic_C2, Procedure I, Low temperature cycle Temperature: -37~ -46°C (-50°F) Duration:7 day exposure (7 X 24 hr. cycles) wind speed less than 5m/s(11mph) Unit is non-operational during test	Pass
Low Temperature Operational (Basic climatic)	Method 502.7 Procedure II	Table IX. Basic climatic_C1,Procedure II. Low temperature cycles) Temperature: -21~ - 32°C Duration: 3 day exposure (3 X 24 hr. cycles) Unit is operational during test	Pass
Low Temperature Operational (Cold climatic)	Method 502.7 Procedure II	Table XI. Cold climatic_C2,Procedure II.Low temperature cycles Temperature: -37~ -46°C (-50°F) Duration: 3 day exposure (3 X 24 hr. cycles) wind speed less than 5m/s(11mph) Unit is operational during test	Pass
Temperature Shock	Method 503.7 Procedure I-C	Duration: 1 Hour / Three cycles Temperature: -51 to 71˚C Unit is non-operational during test	Pass
Sand and Dust	Method 510.7 Procedure II	Particle density:1.2g/m^3 Air velocity: 28m/s Operating temperature of 60˚C	Pass
Vibration	Method 514.8 Procedure I (I)	Category 4 - Common carrier (Break points for curves of Figure 514.8C-2) OP/ test time 60min/axis	Pass
	Method 514.8 Procedure I (IV)	Category 4 – Composite two-wheeled trailer vibration exposure (Break points for curves of Figure 514.8C-4) NOP/ test time 32min/axis	Pass
	Method 514.8 Procedure I (VI)	Category - 4 - Composite wheeled vehicle vibration exposure (Break points for curves of Figure 514.8C-6) NOP/test time 40min/axis	Pass
	Method 516.8 Procedure I	Functional Shock Operational 3 shocks/axis/direction for a total of 18 shocks; 40 Gs peak, 11 ms	Pass
	Method 516.8 Procedure II	Transportation shock- On road (5000Km) Amplitude : 5.1~ 7.6 G-Pk , Number of Shocks: 3 ~ 42 times Pulse Duration: 11ms	Pass

Shock		Terminal Peak Sawtooth Unit is non-operational during test (Package)	
	Method 516.8 Procedure III	Fragility 3 shocks/axis/direction for a total of 18 shocks; 30~50 Gs peak, Trapezoidal pulse (772cm/s, 10G/Each stage) Unit is non-operational during test	Pass
	Method 516.8 Procedure IV	Transit Drop (Package)/122cm /26 Drop	Pass
	Method 516.8 Procedure VI	Bench Handling (Drop Height : 100 mm) Unit is operational during test.	Pass
Freeze/Thaw	Method 524.1 Procedure III	Rapid Temperature Change Temperature: (30°C and -10°C) Humidity: 95% RH Dwell: 1Hour； Three cycles	Pass
Mechanical Vibrations of Shipboard Equipment	Method 528.1 Procedure I	Environmental Vibration 4~33 Hz/ 2Hours	Pass

1. The ASUS testing regimen is not a guarantee of future performance under the specified test conditions. Damage occurring un der these test conditions would be considered accidental, and would not be covered by the standard ASUS warranty. Additional cover is available with the ASUS Ac cidental Damage Protection care pack.

2. MIL-STD-810 testing is conducted on selected ASUS products only. These tests are not intended to and do not demonstrate fitness for US Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under the specified t est conditions. Damage occurring under t hese test conditions would be considered accidental, and would not be covered by the standard ASUS warranty. Additional cover is available with the ASUS