

ASUS MIL-STD 810H Test Report - CX9400

| Test Category | Test Method | MIL-STD-810H Test Parameters | Test Result |
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| Altitude Storage/ Air Transport | Method 500.6-Procedure I | Test Pressure: Equivalent to cabin altitude of 40,000ft Temperature: -20°C Duration: 12 hour Unit is non-operational during test. | Pass |
| | | Altitude Operation/Air Carriage | Pass |
| High Temperature Operational (Hot Dry) | Method 501.7-Procedure II (A1) | Test Pressure: Equivalent to cabin altitude of 15,000ft Temperature: 5°C and 40°C Duration: 12 hour (5°C) and 12 hour (40°C) Unit is operational during test. | Pass |
| | | High Temperature Storage and Transit (Hot Dry) | Pass |
| High Temperature Operational (Basic Hot) | Method 501.7-Procedure II (A2) | Duration: 3 day exposure (3 X 24 hr. cycles) Temperature: 32-49°C cycling temperature exposure Table 501.7-III-Procedure. High temperature cycles, climate category A1 Hot Dry Unit is operational during test. | Pass |
| | | High Temperature Storage and Transit (Basic Hot) | Pass |
| High Temperature Operational (Basic Hot) | Method 501.7-Procedure I (A2) | Duration: 7 day exposure (7 X 24 hr. cycles) Temperature: 33-71°C cycling temperature exposure Table 501.7-III-Procedure. High temperature cycles, climate category A1 Hot Dry Unit is non-operational during test. | Pass |
| | | High Temperature Storage and Transit (Basic Hot) | Pass |
| Low Temperature Storage and Transit (Basic climatic) | Method 502.7- Procedure I (C1) | Duration: 3 day exposure (3 X 24 hr. cycles) Temperature: 30-43°C cycling temperature exposure Table 501.7-II-Procedure. High temperature cycles, climatic category A2 - Basic Hot Humidity: 14-44% Unit is operational during test. | Pass |
| | | Low Temperature Operational (Basic climatic) | Pass |
| Low Temperature Storage and Transit (Cold climatic) | Method 502.7- Procedure I (C2) | Duration: 7 day exposure (7 X 24 hr. cycles) Temperature: 30-63°C cycling temperature exposure Table 501.7-II-Procedure. High temperature cycles, climatic category A2 - Basic Hot Humidity: 5-44% Unit is non-operational during test. | Pass |
| | | Low Temperature Operational (Basic climatic) | Pass |
| Temperature Shock | Method 503.7- Procedure I-C | Duration: 7 day exposure (7 X 24 hr. cycles) Temperature: -25- -33°C Low temperature cycles, Table IX. Basic climatic_C1 Unit is non-operational during test. | Pass |
| | | Low Temperature Storage and Transit (Cold climatic) | Pass |
| Humidity Aggravated Cycle | Method 502.7- Procedure II (C1) | Duration: 3 day exposure (3 X 24 hr. cycles) Temperature: -21- -32°C Low temperature cycles, Table IX. Basic climatic_C1 Unit is operational during test. | Pass |
| | | Humidity Aggravated Cycle | Pass |
| Fungus | Method 507.6- Procedure II | Duration: 7 day exposure (7 X 24 hr. cycles) Temperature: -37- -46°C Low temperature cycles, Table XI. Cold climatic_C2 Wind speed less than 5m/s(11mph) Unit is non-operational during test. | Pass |
| | | Humidity Aggravated Cycle | Pass |
| Sand and Dust | Method 508.8 | Duration: 1 Hour / Three cycles Temperature: -51 to 71 °C Unit is non-operational during test. | Pass |
| | | Humidity Aggravated Cycle | Pass |
| Vibration | Method 510.7- Procedure I | Duration: 10 Days Temperature: 30°C and 60°C Humidity: 95% RH, constant Unit is non-operational during test. | Pass |
| | | Humidity Aggravated Cycle | Pass |
| Vibration | Method 510.7- Procedure II | 5 fungus, 30°C, 95%RH 28 days, Non-Operating | Pass |
| | | Humidity Aggravated Cycle | Pass |
| Vibration | Method 510.7- Procedure I | Particle density: 10 +/- 7 g/m ³ Air velocity: 300 to 1750 ft/min Operating temperature of 60 °C | Pass |
| | | Humidity Aggravated Cycle | Pass |
| Vibration | Method 510.7- Procedure II | Particle density: 1.2g/m ³ Air velocity: 28m/s Operating temperature of 60 °C | Pass |
| | | Humidity Aggravated Cycle | Pass |
| Vibration | Method 514.8- Procedure I (Table 514.8C-I) | Frequency 10-500Hz, Vertical rms = 1.04 g Transverse rms = 0.02g, Longitudinal rms = 0.74g Test Time: 60 minutes per axis (US highway truck vibration exposure) | Pass |
| | | Humidity Aggravated Cycle | Pass |
| Vibration | Method 514.8- Procedure I (Table 514.8C-IV) | Frequency 5-500Hz, Vertical rms = 4.43 g Transverse rms = 1.30g, Longitudinal rms = 2.86g Test Time: 32 minutes per axis | Pass |
| | | Humidity Aggravated Cycle | Pass |

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| | Method 514.8- Procedure I (Table 514.8C-VII) | Frequency 5-500Hz, Vertical rms = 2.24 g Transverse rms = 1.48g, Longitudinal rms = 1.90g Test Time: 40 minutes per 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 Terminal Peak Sawtooth Non-OP/ Package | Pass |
| Shock | Method 516.8- Procedure III | Fragility Non-operational 3 shocks/axis/direction for a total of 18 shocks 30–50 Gs peak, Trapezoidal pulse(772cm/s, 10G/each stage) | Pass |
| | Method 516.8- Procedure IV | Transit Drop (Package)/122cm /26 Drop | Pass |
| | Method 516.8- Procedure V | Crash Hazard Shock Test 2 shocks/axis/direction for a total of 12 shocks 75 Gs peak, 6 ms/Terminal Peak Sawtooth/unpackage nop | 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 1 (Type 1) | 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 under these test conditions would be considered accidental, and would not be covered by the standard ASUS warranty. Additional cover is available with the ASUS Accidental 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 test conditions. Damage occurring under these test conditions would be considered accidental, and would not be covered by the standard ASUS warranty. Additional cover is available with the ASUS