

# Test Certificate

Lenovo (Beijing) Co., Ltd.

According to the SGS MIL-810H test report, the Lenovo product '**ThinkBook 16 G7 ARP**' has been tested based on test items and corresponding conditions listed in the following table, and the test results meet the standard requirements.

MIL-810H	Category	Test Condition	EUT Condition	Item	Result
500.6	Low Pressure (Altitude)	Procedure I (Storage) 15,000 feet for 1 hour 57.2kPa or 8.3 psia	Power Off	1	PASS
		Procedure II (Operation) 15,000 feet for 1 hour 57.2kPa or 8.3 psia	Power On	2	PASS
501.7	High Temperature	Procedure I (Storage) 63C 4 hours (Basic Hot) Additional 20 hours	Power Off	3	PASS
		Procedure II (Operation) 43C 2 hours (Basic Hot) Additional 6 hours	Power On	4	PASS
		Procedure III (Tactical-Standby to Operational) Basic Hot (A2)	Power Off/On	5	PASS
502.7	Low Temperature	Procedure I (Storage) -25C 24 hours (Basic Cold)	Power Off	6	PASS
		Procedure II (Operation) -21C 2 hours (Basic Cold) Additional 6 hours	Power On	7	PASS
503.7	Temperature Shock	Procedure I-A One-way shock -25 to 60C 4 hours	Power Off	8	PASS
		Procedure I-B Single cycle shock -25 to 60C 4 hours	Power Off	9	PASS
505.7	Solar Radiation (Sunshine)	Procedure I Cycling three 24 hour cycles of controlled simulated solar radiation	Power Off	10	PASS
		Procedure II Steady State four 24 hours cycles, 505.7-2	Power Off	11	PASS
507.6	Humidity	Procedure II Aggravated Cycle 95% RH 30-60C 24hours x 10 cycles	Power Off	12	PASS
510.7	Sand and Dust	Procedure I (Blowing Dust) 140 mesh silica, 10 g/m <sup>2</sup> : 8.9 m/s 12 hours 25C for 6 hours and 60C for 6 hours	Power Off/On	13	PASS
		Procedure II (Blowing Sand) Silica sand (at least 95% by weight SiO <sub>2</sub> ) 0.18 g/m <sup>2</sup> : 18 m/s 90min x 2 direction	Power Off	14	PASS
511.7	Explosive Atmosphere	Procedure I Explosive Atmosphere Operated in a fuel vapor environment	Power On	15	PASS
514.8	Vibration	514.8C-2 Category 4 Secured Cargo Common Carrier Table 514.8C-I Common Carrier Vertical: 1.04Grms Transverse: 0.20Grms Longitudinal: 0.74Grms 1 hour in all 3 axis	Power On	16	PASS
		514.8C-6 Category 4 Secured Cargo Composite Wheeled Vehicle Assume 805km (500miles) 40 minutes per axis	Power Off	17	PASS
		514.8C-8 Category 5 Truck/trailer - loose cargo w/ Procedure II Assume 805km (500miles) 67 minutes	Power Off	18	PASS
		514.8E-1 Category 24 Minimum Integrity Fig 514.8E-1 General min Integrity exposure .04g <sup>2</sup> /Hz 20 - 1 KHz -6 db/Oct 1 KHz - 2 KHz 1 hour/axis x 3 axes	Power Off	19	PASS
516.8	Shock	Procedure I Functional Shock Table 516.8-IV Terminal peak sawtooth shock pulse 20G/11ms 3+3- in all 3axis for a total of 18 shocks	Power On	20	PASS
		Procedure II Transportation Shock 5000km On-road, 1000km Off-road	Power Off	21	PASS
		Procedure IV Transit drop 122 cm Drop on each face, edge and corner;	Power Off	22	PASS
		Procedure V Crash Hazard Shock 75 G / 6msec , 12 shocks	Power Off	23	PASS
		Procedure VI Bench Handling 100mm or 45degree , 4 drops x 2	Power Off	24	PASS
524.1	Freeze/Thaw	Procedure III (Rapid Temperature Change) From 25C to -10C	Power Off	25	PASS
528.1	Vibrations of Shipboard	Procedure I (Type I) 4 to 33Hz , 2 hours	Power On	26	PASS



The validity of the letter of conformity is only applicable to the tested samples, and the declaration within the letter of conformity is based on the test data and results from the SGS MIL-810H test report.

The ultimate authority for interpreting the letter of conformity rests with Wistron Corporation, and proffers for the Lenovo group to utilize.