

MIL-STD Testing Typically Performed on PacStar Designed Products

Test Description	MIL-STD-810H, Test Method	Parameters
Vibration: Operation	MIL-STD-810H Method 514.8	Rotary Wing Aircraft - Helicopter Figure 514.8D-4 Category 14 Table 514.8d-IIIb (General Materiel)
Vibration: Operation	MIL-STD-810H Method 514.8	Composite Wheeled Vehicle Figure 514.8C-6 - Category 4 Table 514.8C-VII
Shock: Functional	MIL-STD-810H Method 516.8 (Procedure I)	Figure 516.8-3 (Terminal peak sawtooth shock pulse) Table 516.8-IV: Flight Vehicle Materiel (20g, 11 ms)
Shock: Bench Handling	MIL-STD-810H Method 516.8 (Procedure VI)	Section 4.6.7.3 Test Procedure - Bench Handling (Procedure VI)
Temperature: Operational, High	MIL-STD-810H Method 501.7 (Procedure II)	Product specific limit: 55°C, 60°C or 70°C based on PRD
Temperature: Operational, Low	MIL-STD-810H Method 502.7 (Procedure II)	-20°C
Temperature: Storage, High	MIL-STD-810H Method 501.7 (Procedure I)	85°C Non-operating. *For Smart Chassis testing, Li-ion battery must be removed.
Temperature: Storage, Low	MIL-STD-810H Method 502.7 (Procedure I)	-50°C Non-operating
Humidity	MIL-STD-810H Method 507.6	Temperature and Humidity Cycles Figure 507.6-1: Induced Cycle B-1 - Storage and transit Table 507.6-1: High humidity diurnal categories
Dust: Blowing	MIL-STD-810H Method 510.7 (Procedure I, modified)	Dust concentration of 10 g/m ³ , Windspeed of 15 mph (best effort)
Sand: Blowing	MIL-STD-810H Method 510.7 (Procedure II, modified)	Sand concentration of 2.2 g/m ³ , Windspeed of 30mph (best effort)
Altitude: Low Pressure	MIL-STD-810H Method 500.6, Procedures I and II	Altitude, storage = 12,192m (40,000 ft) Altitude, operational = 4,572m (15,000 ft)
Test Description	MIL-STD-461G:2015, Test Method	Parameters
Radiated Emissions	MIL-STD-461G RE102	Figure RE 102-4 Ground Applications, Navy Fixed and Air Force curve
Radiated Susceptibility	MIL-STD-461G RS103	50 V/M, 2 MHz to 18 GHz
Conducted Emissions	MIL-STD-461G CE101	Figure CE101-2 Surface Ships and Submarine Applications, 60 Hz
Conducted Emissions	MIL-STD-461G CE102	Figure CE102-1 10 kHz to 10 MHz
Conducted Susceptibility	MIL-STD-461G CS101	30 kHz to 150 MHz
Conducted Susceptibility	MIL-STD-461G CS114	10 kHz to 200 MHz
Conducted Susceptibility (Impulse)	MIL-STD-461G CS115	30 Hz, 5A

Conducted Susceptibility (Damped Sine)	MIL-STD-461G CS116	10 kHz to 100 MHz 0.1A @ 10 kHz, 1A @ 100 kHz, 10A up to 30 MHz, 3A @ 100 MHz
Personnel Borne Electrostatic Discharge (ESD)	MIL-STD-461G CS118	Per procedure