

Reliability Specification & Reliability Design Specification Sheet

Model Name : P470

| No. | Items | Standard | spec. | Result |
|-----|--|---|---|--------|
| 1 | MTBF (Exclude Battery and CCFT) | Getac | More than 20,000h at 25deg C | Pass |
| 2 | Operating Environment Performance | | | |
| 1 | Operating environment temperature | IEC68-2-1,2,14/MIL-STD-810F,Method 501.4,502.4 | Standard: 0°C to 45°C (operation) : -40°C to 70°C (non-operation) Option: -15°C to 45°C (operation) | Pass |
| 4 | Humidity | IEC68-2-30/MIL-STD-810F,507.4 | 5% to 95% RH, non-condensing. | Pass |
| 5 | Altitude | IEC68-2-13/MIL-STD-810F,500.4 | Non-operating: 40,000ft | Pass |
| 6 | Drop | IEC68-2-32/MIL-STD-810F, 516.5 | 76cm (3 feet) height free drop on polywood, total 26 tims | Pass |
| 7 | Shock | IEC68-2-27/MIL-STD-810F,516.5 | Operating: 15g, 11ms, Non-operating: 50g,11ms,halfsine wave. | Pass |
| 8 | Vibration | IEC68-2-6 | Sinusoidal wave vibration: Operating: 10~57.5Hz/0.075mm, 57.5~500Hz/1.0g Non-operating: 10~57.5Hz/0.15mm, 57.5~500Hz/2.0g | Pass |
| 9 | truck vibration system with vehicle dock | MIL-STD-810F, 514.5-high way truck vibration exposure | Random:Operating: MIL-STD-810F, 514.5-high way truck vibration exposure | Pass |
| | | MIL-STD-810F-514.5C-17 General minimum integrity exposure | Non-operating MIL-STD-810F-514.5C-17 General minimum integrity exposure 0.040 G2/Hz from 20 to 1000 Hz, -6 dB/Octave from 1000 to 2000 Hz 60 minutes for each axis | Pass |
| 10 | ESD | IEC1000-4-2 | Air Discharge: 0kV~8kV(included) no any error 8 kV~15 kV allow soft error Contact Discharge: 0kV~4kV(included) no any error 4kV~ 8kV allow soft error | Pass |

| | | | | |
|----------|--------------------------------------|-------|--|------|
| 11 | Liquid Resistant Test | Getac | Keyboard: 250cc total, 50CC each in 4 corners, and Centerc Buttons: 50CC in each of buttons | Pass |
| 3 | Operation Life of Major Parts | | | |
| 1 | Keyboard | Getac | More than 3,000,000 times | Pass |
| 2 | Power SW | Getac | More than 13,000 times | Pass |
| 3 | Touch Pad | Getac | More than 1,200,000 times | Pass |
| 4 | Hinge | Getac | More than 25,000 times | Pass |
| 5 | LCD cable | Getac | More than 25,000 times | Pass |
| 6 | LCD Latch | Getac | 13,000 times | Pass |
| 7 | Battery Pack | Getac | 300 times | Pass |
| 8 | Battery connecter | Getac | 300 times | Pass |
| 9 | Memory module | Getac | 100 times | Pass |
| 10 | PC card slot | Getac | 5,000 times | Pass |
| 11 | ExpressCard slot | Getac | 5,000 times | Pass |
| 12 | 4 in 1 Card Reader slot | Getac | MS (3,000 times), SD (3,000 times), MMC (1,000 times), and xD (3,000 times) | Pass |
| 13 | AC adapter inlet | Getac | 6,000 times | Pass |
| 14 | AC code | Getac | 13,000 times | Pass |
| 15 | DC cable | Getac | 13,000 times | Pass |
| 16 | DC Jack | Getac | 3,500 times | Pass |
| 17 | Modem connecter | Getac | 3,500 times | Pass |
| 18 | LAN connecter | Getac | 3,500 times | Pass |
| 19 | IEEE 1394 connecter | Getac | 3,000 times | Pass |
| 20 | USB connecter | Getac | 3,500 times | Pass |
| 21 | Internal connecter | Getac | 50 times | Pass |
| 22 | VGA I/F | Getac | 500 times | Pass |
| 23 | RS232 connecter | Getac | 5,000 times | Pass |
| 24 | Headphone Jack | Getac | 500 times | Pass |
| 25 | Mic Jack | Getac | 3,500 times | Pass |

| | | | | |
|----------|--------------------------------------|-------|--|------|
| 26 | Optical Device | Getac | Depend on unit spec | Pass |
| 27 | Docking In Port | Getac | 5,000 times | Pass |
| 28 | CCFT life | Getac | 10,000hours | Pass |
| 29 | Rubber Door | Getac | 3000 times | Pass |
| 4 | Strength test | | | |
| 1 | Battery Lock | Getac | 5cm height | Pass |
| 3 | Kensington Lock | Getac | More than 25Kg | Pass |
| 4 | LAN cable | Getac | More than 10Kg | Pass |
| 5 | Modem cable | Getac | More than 10Kg | Pass |
| 6 | USB connector | Getac | More than 10Kg | Pass |
| 7 | Outside all connectors for the cable | Getac | More than 10Kg | Pass |
| 5 | Impact | | | |
| 1 | LCD protective glass | Getac | Steel ball (1 1/4" Diameter, 130 grams) drop from 50cm | Pass |
| 2 | Touch Screen | Getac | Steel ball (1 1/4" Diameter, 130 grams) drop from 50cm | Pass |





