



## JNB-1502B

### Fully Rugged 15.6" Laptop

- 15.6" FHD 1920\*1080 display
- sunlight readable
- Intel® Core™ **i7-6822EQ** 2.0GHz/**i7-7820EQ** 3.0GHz
- Built-in NVIDIA® GTX950M video card
- Meet MIL-STD-810G, MIL-STD-461F and IP65
- 20G/WLAN/Bluetooth/GPS/Fingerprint/Webcam
- Lot of LAN/USB/COM/Display/Card slot



#### Specifications

<b>CPU</b>	Intel® Core™ i7-7820EQ 3.0GHz(Max 3.7GHz) Quad-core 8 threads Intel® Core™ i7-6822EQ 2.0GHz(Max 2.8GHz) Quad-core 8 threads
<b>Chipset</b>	Intel® HM175
<b>Memory</b>	Onboard 4GB DDR4 memory, <b>expandable up to 20GB</b>
<b>Display screen</b>	15.6" sunlight-readable display screen, resolution 1920 x 1080
<b>Display card</b>	Support Intel HD Graphics 4600 integrated display technology Support expansion of NVIDIA GTX950M 2G GDDR5 video card
<b>Storage</b>	2.5" SATA interface laptop HDD, optional encryption and HDD self-destruction 1 x mSATA expandable to the second storage
<b>IO port</b>	1 x VGA port 1 x HDMI port 2 x RJ-45 LAN port 2 x USB3.0 port 2 x USB2.0 port 2 x serial port(support RS-232/422/485 switched by BIOS, default RS-232) 1 x Line Out audio output port 1 x Mic-In audio input port 1 x DVD optical drive bay 1 x DC power input connector (aviation connector)
<b>Expansion card slot</b>	1 x Smart Card slot 1 x Express Card slot 1 x SD Card reader slot 1 x SIM Card slot



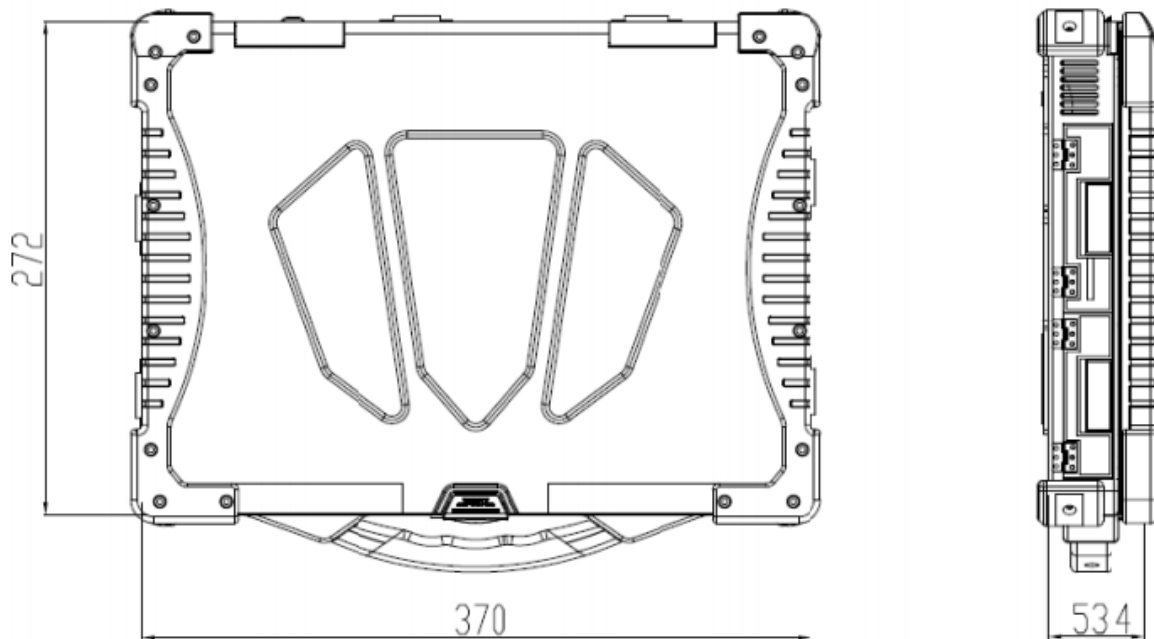
<b>Multi-function expansion slot</b>	<p>The optical drive bay can be expanded to one of the following options:</p> <ul style="list-style-type: none"> <li>● 2 x COM port;</li> <li>● optical drive or a second HDD module;</li> <li>● PCI-E x1 device;</li> <li>● USB port or USB function device;</li> <li>● Support expansion port on the bottom, docking station can be attached</li> </ul>
<b>Keyboard</b>	<p>Special plastic keyboard for laptop computer, with left/right-key touch pad mouse</p> <p>optional silicon keyboard (with blue backlight)</p>
<b>Audio and video</b>	<p>High-definition audio processor</p> <p>2 x built-in speaker</p> <p>1 x built-in microphone</p>
<b>Web Camera</b>	<p>2.0 MP front camera</p>
<b>Communication</b>	<p>WLAN: 802.11a/g/n (or 4G)</p> <p>LAN: 10/100/1000M</p> <p>PAN: Bluetooth 4.0 Class I + EDR</p> <p>WWAN: supports 4G (or WLAN)</p> <p>Satellite positioning: GPS (optional)</p>
<b>Safety</b>	<p>TPM optional</p> <p>Administrator password, login password</p> <p>Smart card reader</p> <p>Finger print identification</p> <p>Anti-theft pin hole</p>
<b>Power adapter</b>	<p>AC power adapter : input AC110~240V, output DC19V@180W</p> <p>DC power adapter: input DC9~32V, output DC19V (optional)</p>
<b>Battery</b>	<p>8400mAH intelligent Li-ion battery, expandable to 2nd Battery Pack( 5000mAH)</p>
<b>Heat dissipation</b>	<p>Waterproof Fan design, heat dissipation by sealed metal chassis</p>
<b>Dimensions</b>	<p>370mm(W)×272mm(D)×53.4mm(H)</p>
<b>Weight</b>	<p>JNB-1502B-01 : 5.5KGS</p> <p>JNB-1502B-02: 5.0KGS</p>

## Reliability

<b>Environment parameters</b>	<p>Operating temperature: -20~55℃ (power adapter supply, wide temperature storage); -</p> <p>0~50℃ (power adapter supply, normal storage)</p> <p>0~50℃ (battery supply)</p> <p>Storage temperature: -40~70℃</p> <p>Humidity: 5%~95%, non-condensing</p>
<b>Shock</b>	<p>Meets MIL-STD-810G/GJB367A-2001/GJB322A-98/GJB150A</p> <p>Power-on status: Half Sine wave, 15G, 11ms</p> <p>Power-off status: Half Sine wave, 50G, 11ms</p>
<b>Vibration</b>	<p>Meets GJB367A-2001/GJB322A-98 sine vibration test</p> <p>Power-on status: X/Y/Z three-axis, 5Hz-200Hz/1.0g (optional 1.5g)</p> <p>Power-off status: X/Y/Z three-axis, frequency 10~23Hz, acceleration 1.0G</p> <p>Frequency 23~52Hz, amplitude 0.44mm</p> <p>Frequency 52~2000Hz, acceleration 4.2G</p>



	Meets GJB150A/MIL-STD-810G random vibration test Power-on status: X/Y/Z three-axis, 5-500Hz, 1.90 Grms Power-off status: X/Y/Z three-axis, 20-2000Hz, 7.70 Grms
<b>Drop</b>	Meets MIL-STD-810G/GJB367A-2001/GJB322A-98/GJB150A 4-feet (121cm) free fall
<b>Protection grade</b>	Meets MIL-STD-810G/GJB367A-2001/GJB322A-98/GJB150A IP65
<b>EMC</b>	Meets MIL-STD-461F/GJB-151A land force five-item/ test requirements

**Dimension****Ordering Information**

Part Number	Model Number	Description
0010-106121	JNB-1502B-01	Intel Core <b>i7-6822EQ</b> 2.0GHz/ <b>20GB DDR4</b> /128G SSD/15.6 sunlight readable screen/ <b>NVIDIA GTX950M</b> /DVD-RW/WLAN/Bluetooth/Fingerprint identification/ <b>2.0MP Webcam</b> /8400mAh main battery/Plastic keyboard/Military adaptor
0010-106131	JNB-1502B-02	Intel Core <b>i7-7820EQ</b> 3.0GHz/ <b>4GB DDR4</b> /128GB SSD/15.6 sunlight readable screen/DVD-RW/WLAN/Bluetooth/Fingerprint identification/8400mAh main battery/Plastic keyboard/Military adaptor