

# Lizard<sup>®</sup>

rugged ultralight

# RW11

15.6" notebook



WATER

SAND



FROST

HEAT



SHOCK

DROP

## Technical specification

<b>Display</b>	LCD 15.6" Full HD (1920x1080) <ul style="list-style-type: none"><li>• LED backlight</li><li>• sunlight readable typ. 300 cd/m<sup>2</sup></li><li>• optical bonding</li></ul>	<b>Interfaces (left side)</b>	2x USB 3.0 (1x fast charge 1.2 V & 1.5 A), 2x Audio 3.5mm jack
<b>Chipset</b>	Intel <sup>®</sup> Chief River Plattform Intel <sup>®</sup> QM77 Express Chipset	<b>Interfaces (right side)</b>	2x USB2.0, 1x GBit LAN
<b>CPU</b>	Intel <sup>®</sup> Core™ i7-3610QE, 2.3 GHz, 3 <sup>rd</sup> Generation Quad Core Processor, max 3.30 GHz, with Intel <sup>®</sup> Turbo Boost Technology, 6MB Intel Smart Cache	<b>Interfaces (rear side)</b>	1x MIL DC-In, 1x VGA, 1x Displayport, 2x serial DB9 (COM 1-2)
<b>Graphics</b>	Intel <sup>®</sup> HD Graphics 4000	<b>Interfaces (bottom side)</b>	1x multi bay docking port >> <i>docking solution on request</i>
<b>Memory</b>	up to 32 GB DDR3L 1600 Mhz 4x SO-DIMM slot	<b>Power supply</b>	<ul style="list-style-type: none"><li>• Li-polymer battery, 10,8 V, 5800 mAh (2x 5800 mAh battery without DVD drive)</li><li>• AC-adapter 200W, 100V~240V, 50/60Hz</li></ul>
<b>Storage/ ODD</b>	HDD up to 1000GB per drive SSD up to 600GB per drive  <b>Version 1:</b> up to 4x 2.5" SSD drives (2xSATA2 + 2xSATA3) <b>Version 2:</b> up to 2x 2.5" SATA3 SSD drives + DVD-RW drive	<b>Security</b>	Kensington lock >> <i>TPM 1.2 (optional)</i>
<b>Audio</b>	HD audio and stereo speaker, embedded Microphone	<b>OS</b>	Windows 7 / 8.1 / 10 / Server 2012
<b>Touchpad</b>	standard: capacitive (multi touch) alternative: resistive (single touch)	<b>Certification</b>	CE/FCC, WEEE, REACH, RoH, full IP65 (with opened I/O-port covers), MIL-STD 810G
		<b>Housing</b>	milled anti-corrosion aluminum
		<b>Colour</b>	military green (NATO olive / RAL6031HR)
		<b>Dimensions</b>	382 x 280 x 34 mm (without bumper) 392 x 300 x 42.5 mm (with bumper)
		<b>Weight</b>	4.7 kg

MIL-STD 810G	operating	storage
<b>Altitude</b> Method 500.5, (Procedure I, II)	4572 m (15000 ft)	12192 m (40000 ft)
<b>Temperature</b> Method 501.5 & 502.5, (Procedure I, II)	-20°C to +55°C *optional heater for -30°C * +60°C only with one fan	-40°C to +70°C
<b>Temperature shock</b> Method 503.5, (Procedure I)	-20°C to +60°C	-20°C to +60°C
<b>Rain</b> Method 506.5, (Procedure I)	276 kPa, 0,5 - 4,5 mm diameter	276 kPa, 0,5 - 4,5 mm diameter
<b>Humidity</b> Method 507.5, (Procedure I)	ten 24 h test cycles 95 % (30°C - 60°C)	ten 24 h test cycles 95 % (30°C - 60°C)
<b>Salt fog</b> Method 509.5, (Procedure I)	N/A	5+-1 % salt concentration, 24 h wet + 24 h dry/cycle, Total: two test cycles / 96 h
<b>Vibration</b> Method 514.7, Category 24 Method 514.7, Category 20 (Procedure I)	All material intensity Comp. Wheeled Vehicle Vibration	All material intensity Comp. Wheeled Vehicle Vibration
<b>Shock / drop</b> Method 516.7, (Procedure I) Method 516.7, (Procedure IV)	40 G, 11ms 76 cm (26 drops)	40 G, 11ms 76 cm (26 drops)

MIL-STD 461F		
<b>CE101</b>	30 Hz ~ 10 KHz	CE101-4 Curve #1
<b>CE102</b>	10 KHz ~ 10 MHz	115 V, Basic Curve +6db
<b>CS101</b>	30 Hz ~ 150 KHz	CS101-1 Curve #1
<b>CS114</b>	10 KHz ~ 200 KMz	Curve #5-5-5
<b>CS115</b>		All
<b>CS116</b>	10 KHz to 100 KMz	Imax = 10 A
<b>RE101</b>	30 Hz ~ 100 KHz	RE101-2, Navy
<b>RE102</b>	10 KHz ~ 18 GHz	RE102-4, Navy Fixed & Air Force
<b>RS101</b>	30 Hz ~ 100 KHz	RS101-1, Navy
<b>RS103</b>	2 MHz ~ 40 GHz	2 MHz ~ 8 GHz, 50 V/m



Lizard® RW11 left side interfaces



Lizard® RW11 rear side interfaces



Lizard® RW11 right side interfaces

## Options

- Touch screen (capacitive multi touch or resistive single touch)
- resistive TouchPad
- dedicated nVIDIA® GeForce® GTX950M graphics chip, 2GB Memory
- Display upgrade 800 cd/m<sup>2</sup>
- I-Temp SLC SSD (-45°C to + 85°C)
- WLAN card (Intel® Centrino Advanced-N 6235 802.11 ac/a/b/g/n) incl. Bluetooth v2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0(BLE)
- GPS Ublox Neo-M8N module (GPS/GLONASS)
- 2nd GLAN port (RJ45)
- 2 additional serial DB9 ports (COM 3-4)
- built-in vehicle adapter 12-32 V<sub>DC</sub>
- wide temperature range -30°C to +60°C
- Smart Card Reader Class 1
- integrated RAID Storage (e.g. 1x System HDD/SSD + 3x HDD/SSD raid composite)
- Handle on front side
- optional MIL grade connectors on request

## Extensions for multi bay docking port

- 8 Port switch (copper)
  - 1x MIL DC-in, 1x RS232 console port, 8x RJ45 GBit LAN
- 8 Port switch (LWL)
  - 1x MIL DC-in, 1x RS232 console port, 8x LC GBit fiber LAN

v2.3



Lizard® RW11 HDD + battery bay

## Optionale Certification & Modification

- MIL-STD 461F certification
  - Ground Navy (Navy fixed & Air Force)
  - Ground Army (Navy mobile & Army)
- TEMPEST SDIP 27 Level B (ER)

Only possible with resistive touch pad and touch screen!

## Accessories

- external battery charger