

# Lizard®

rugged ultralight

# RS13

13.3" notebook



WATER



SAND



FROST



HEAT



SHOCK



DROP



THIN



LIGHT

Lizard® RS13 – It is the first rugged notebook that is ultra-flat, light and equipped with a housing that is milled from solid aluminium. As a result, a high rigidity and robustness could be reached despite the minimal installation space and weight. Besides the well-proven Rocky® notebooks and Panther tablets which are usually installed in vehicles, a revolution for the „mobile“ use was succeeded with the Lizard® RS13.

## Technical specification

<b>Display</b>	LCD 13,3" FHD (1920x1080) LED <ul style="list-style-type: none"><li>• LED backlight</li><li>• sunlight readable</li><li>• optical bonding</li></ul>	<b>Interfaces (left side)</b>	2x USB 3.1 Gen.1 (1x fast charge), 1x GBit LAN (RJ45)
<b>Chipset</b>	Intel® Kaby Lake U platform	<b>Interfaces (rear side)</b>	1x Displayport (or optional VGA) 1x COM (DB9) 1x DC-In (2-Pin) >> <i>optional MIL DC-In (3-Pin Amphenol)</i>
<b>CPU</b>	Intel® 7th Gen. Core™ i7-7600U processor, 4M Cache, up to 3.90 GHz	<b>Interfaces (bottom side)</b>	1x multi bay port >> <i>docking solution on request</i>
<b>Graphics</b>	Intel® HD Graphics 620	<b>Security</b>	TPM 2.0 module
<b>Memory</b>	up to 32 GB DDR4 2133 Mhz (1x SO-DIMM slot)	<b>OS</b>	Windows 10
<b>Storage</b>	2.5" SATA III drive (7mm) SSD (up to 1TB MLC) exchangeable >> <i>optional M.2 SSD slot</i>	<b>Certification</b>	CE/FCC, WEEE, REACH, WHLK, RoHS2.0, full IP65 (with opened I/O-port covers), MIL-STD-810G, MIL-STD-461G
<b>Audio</b>	HD audio and stereo speaker	<b>Housing</b>	milled anti-corrosive aluminum
<b>Touch pad</b>	resistive (single touch)	<b>Colour</b>	military green (NATO olive / RAL6031HR), black
<b>Power supply</b>	Li-polymer battery, 11,1 V, 6040 mAh AC-adapter 90 W, 19 V <sub>DC</sub> 3.4 A, 100~240 V <sub>AC</sub> 50/60 Hz	<b>Dimensions</b>	338 x 265 x 31.5 mm (L x D x H)
		<b>Weight</b>	2.5 kg with battery

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 +60°C *optional heater for -30°C	-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 514.6, Category 1 Method 514.6, Category 14 (Procedure I) Method 514.6, Category 20 (Procedure I)	Tracked Vehicle Vibration Helicopter Vibration OH58A/C Comp. Wheeled Vehicle Vibration	Tracked Vehicle Vibration Helicopter Vibration OH58A/C Comp. Wheeled Vehicle Vibration
<b>Shock / drop</b> Method 516.5, (Procedure I)	40 G, 11ms	40 G, 11msxx

**MIL-STD-461G**

<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	I <sub>max</sub> = 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 ~ 18 GHz, 50 V/m



Lizard® RS13 closed



Lizard® RS13 rear side (with optional 3x MIL Fischer interfaces)

**Options**

- multi touch screen (capacitive)
- touchpad (capacitive)
- WiFi module (Intel® Wireless-AC 9260)
  - WLAN 802.11 a/b/g/n/ac
  - Bluetooth 5.0
- GPS module u-blox M8N (GPS/GLONASS)
- front webcam 1MP
- embedded digital microphone
- M.2 slot for main or 2nd SSD
- compatible with night vision goggles
- wide temperature range (heater: -30°C to +60°C)
- internal vehicle adapter 12~32 V<sub>DC</sub> & surge protector
- I/O-ports (left side): HDMI
- I/O-ports (rear side): VGA (trade-off with Fischer VGA)

**Optional Certification**

- MIL-STD-461G certification
  - Ground Army (Navy mobile & Army)

only with resistive touch pad and without touch screen possible!

**Customization for MIL interfaces (rear side)**

optional interfaces as MIL grade connectors, e.g.:  
(max. 3 MIL-interfaces possible)

- MIL COM interfaces (RS232/RS422)
- MIL Audio interface (audio/headset)
- MIL VGA interface for external display
- MIL USB2.0 interface
- MIL GBit LAN interface

**Optional accessories**

- AC-adapter with IP65, MIL-STD810G, MIL-STD461G
- transportation bag
- external DVD(RW)-drive
- adapter cable for MIL-interfaces
- DockUnder docking station / port replicator
- mounting plate for vehicle
- front handle