

Lizard®

rugged ultralight

RB14

Laptop Server



Lizard® RB14 – In addition to the combat proven Rocky notebooks and Panther tablets, which are usually installed in protected vehicles, aircrafts, and ships, roda extends its "mobile mission to the last mile" with the Lizard® RB14. With roda's most powerful Intel® Xeon processor, up to 64 GB RAM, a 17.3" display with sunlight readability,, and up to 4x SSD hard drives with a capacity of up to 1 TB per SSD, and as well as RAID functionality, the powerful Lizard® RB14 mobile server comes in a compact laptop format with plenty of opportunities to adapt to customer specifications and demands.

Technical specification

Display	LCD 17.3" Full HD (1920x1080) • LED backlight • sunlight readable LCD 1000 cd/m²	Interfaces (left side)	2x USB 3.1 Gen.2 (1x 1.5 A fast charge), 3x Audio 3.5mm jack
Platform	Intel® Coffee Lake platform	Interfaces (right side)	2x USB3.1, 1x GBit LAN
Chipset	Intel® CM246 chipset	Interfaces (rear side)	1x MIL DC-In, 1x VGA, 1x Displayport, 2x serial DB9 (COM 1-2)
CPU	Intel® Xeon® Processor E-2176M 2.7 GHz, 12MB Intel® Smart Cache, bis zu 4.4 GHz	Interfaces (bottom side)	1x multi bay docking port >> <i>docking solution on request</i>
Graphics	Intel® UHD Graphics P630	Security	Kensington lock TPM 2.0 module
Memory	up to 64GB DDR4-2400 (ECC/nonECC) 4x SO-DIMM slot	OS	Windows 10 Windows Server 2016
Storage/ ODD	SSD up to 1TB per drive Variant 1 (Standard): up to 4x 2.5" SATA3 SSD drives Variant 2: up to 2x 2.5" SATA3 SSD drives + DVD-RW drive	Certification	CE/FCC, WEEE, REACH, RoHS, full IP65 (with opened I/O-port covers), MIL-STD-810H, MIL-STD-461G
Audio	HD audio and stereo speaker	Housing	milled anti-corrosive aluminum
Touch pad	resistive (single touch)	Colour	military green (NATO olive / RAL6031HR), black
Power supply	Li-ion battery, 10,8 V, 6900 mAh Variant 1: 2x battery w/o DVD drive Variant 2: 1x battery with DVD drive AC-adapter 200 W, 19 V _{DC} , 10.5 A, 100~240 V _{AC} , 50/60 Hz	Dimensions	436 x 328 x 52 mm (L x D x H)
		Weight	ca. 6.8 kg

MIL-STD-810H	operating	storage
Altitude Method 500.6, (Procedure I, II)	4572 m (15000 ft)	12192 m (40000 ft)
Temperature Method 501.7 & 502.7, (Procedure I, II)	-20°C to +60°C *optional heater for -30°C	-40°C to +70°C
Temperature shock Method 503.7, (Procedure I)	-20°C to +60°C	-20°C to +60°C
Rain Method 506.6, (Procedure I)	276 kPa, 0,5 - 4,5 mm diameter	276 kPa, 0,5 - 4,5 mm diameter
Humidity Method 507.6, (Procedure I)	ten 24 h test cycles 95 % (30°C - 60°C)	ten 24 h test cycles 95 % (30°C - 60°C)
Salt fog Method 509.7, (Procedure I)	N/A	5+-1 % salt concentration, 24 h wet + 24 h dry/cycle, Total: two test cycles / 96 h
Vibration Method 514.8, Category 24 Method 514.8, Category 20 (Procedure I)	All material intensity Comp. Wheeled Vehicle Vibration	All material intensity Comp. Wheeled Vehicle Vibration
Shock / drop Method 516.8, (Procedure I) Method 516.8, (Procedure IV)	40 G, 11ms 76 cm (26 drops)	40 G, 11ms 76 cm (26 drops)

MIL-STD-461G

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



Lizard® RB14 left side interfaces



Lizard® RB14 rear side interfaces



Lizard® RB14 right side interfaces



Lizard® RB14 HDD + battery bay

Options

- touch screen (capacitive multi touch or resistive single touch)
- dedicated nVIDIA® Geforce® GTX1050 graphics add-on card (4GB)
- support for night vision goggles
- I-Temp SLC SSD (-45°C to +85°C)
- WiFi module (Intel® Wireless-AC 9260)
 - WLAN 802.11 a/b/g/n/ac
 - Bluetooth 5.0
- GPS module u-blox Neo-M8N (GPS/GLONASS)
- 2nd GLAN port (RJ45, right side)
- 2 additional serial DB9 ports (COM 3-4)
- Smart card reader class 1
- embedded digital microphone
- built-in vehicle adapter 12-32 V_{DC}
- wide temperature range -30°C to +60°C
- smart card reader class 1
- integrated RAID storage 0, 1, 5, 10
- MIL grade connectors on request

v1.9

Optional Certification & Modification

- MIL-STD-461G certification
 - Ground Army (Navy mobile & Army)
- TEMPEST SDIP 27 Level B (ER)

only possible with resistive touch pad and touch screen!

Optional accessories

- AC-adapter with IP65, MIL-STD-810G, MIL-STD-461G
- external battery charger
- transportation bag
- DockUnder docking station / port replicator
- mounting plate for vehicle
- front handle