

Lizard®

rugged ultralight

RW14

Laptop Server



Lizard® RW14 – 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® RW14. With roda’s most powerful Intel® Xeon processor, up to 64 GB RAM, a 15.6“ 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® RW14 mobile server comes in a compact laptop format with plenty of opportunities to adapt to customer specifications and demands.

Technical specification

| | | | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------|
| Display | LCD 15.6“ Full HD (1920x1080) <ul style="list-style-type: none"> • LED backlight • sunlight readable typ. 300 cd/m² • optical bonding | Interfaces (left side) | 2x USB 3.1 Gen.2 (1x 1.5 A fast charge), 3x audio jack 3.5mm |
| 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 | 392 x 302 x 42 mm (L x D x H) |
| | | Weight | 4.86 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® RW14 left side interfaces



Lizard® RW14 rear side interfaces



Lizard® RW14 right side interfaces

Options

- touch screen (capacitive multi touch or resistive single touch)
- dedicated nVIDIA® Geforce® GTX1050 graphics add-on card (4GB)
- display upgrade 800 cd/m²
- 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)
- 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

Mission Mobile Server Module Extensions

- 8-port switch (copper)
 - 1x MIL DC-in, 1x RS232 console port, 8x RJ45 GBit LAN
- 8-port switch (fiber-optic)
 - 1x MIL DC-in, 1x RS232 console port, 8x LC GBit fiber LAN
- Power Module 3.0

v2.1



Lizard® RW14 HDD + battery bay

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-STD810G, MIL-STD461G
- external battery charger
- transportation bag or backpack
- DockUnder docking station / port replicator
- mounting plate for vehicle
- front handle