

Operating with -20°C  
in battery mode!

# Rocky®

full rugged

# RK10

15.1" notebook



The Rocky® Notebooks are characterised by their unique IP65 protection and cooling conception only reached by roda. Even uncovered interfaces and at removed drives, there is no risk from water or dust. Exclusively components with extended temperature range are used for the Rocky® notebooks, the interfaces are decoupled from the mainboard. This enables the Rocky® notebooks to be used reliably at extreme ambient temperatures and vibrations.

## Technical specification

|                     |  |                               |   |
|---------------------|--|-------------------------------|---|
| <b>Display</b>      | LCD 15.1" XGA (1024x768)<br>• LED backlight<br>• sunlight readable<br>• optical bonding  | <b>Interfaces (left side)</b> | 3x Audio (3.5mm), 1x Gigabit LAN (RJ45),<br>1x USB 2.0 (fast charge), 2x USB 3.0,<br>1x PS/2, 1x IEEE 1394a (Firewire),<br>1x Express Card (PCIe) |
| <b>Chipset</b>      | Intel® Huron River Plattform<br>Intel® Cougar Point QM67                                 | <b>Interfaces (rear side)</b> | 1x DC-In, 2x serial (DB9),<br>1x parallel (DB25), 1x VGA (DB15),<br>1x RD-DVI (*RD = roda Display remote),<br>1x docking connector                |
| <b>CPU</b>          | Intel® Core™i7-2610UE™, Sandy Bridge,<br>1,5 GHz (2,4 GHz max. Turbo Frequency)          | <b>OS</b>                     | Windows 7 / 8.1 / 10  |
| <b>Graphics</b>     | Intel® HD Graphics 3000  | <b>Certification</b>          | CE, FCC, WHQL, WEEE, REACH,<br>IP65 (with opened I/O-ports),<br>MIL-STD 810G  |
| <b>Memory</b>       | up to 16 GB DDR3 1600 MHz (2x slots)   | <b>Housing</b>                | rugged magnesium housing  |
| <b>Storage</b>      | exchangeable 2,5" SATA HDD (up to 1000 GB)<br>>> optional SATA SSD (up to 600 GB)        | <b>Colour</b>                 | military green (NATO olive / RAL6031HR),<br>black, desert/sand colour,<br>other colours on request  |
| <b>ODD</b>          | exchangeable DVD±RW drive (FlexBay)  | <b>Dimensions</b>             | • 341.4 mm x 283.4 mm x 70.2 mm<br>• 353 mm x 301 mm x 79.2 mm<br>with rubber bumpers   |
| <b>Audio</b>        | HD audio, stereo speaker   | <b>Weight</b>                 | 5.5 kg  |
| <b>Touchpad</b>     | resistive  |                               |   |
| <b>Power supply</b> | • Li-Ion battery, 10.8 V, 8700 mAh<br>• AC-adapter<br>- 90 W, 1.2 A, 100~240 V, 50~60 Hz |                               |   |

| MIL-STD 810G   | operating  | storage  |
|--|--|--|
| <b>Altitude</b><br>Method 500.5, (Procedure I, II)   | 4572 m (15000 ft)  | 12192 m (40000 ft)   |
| <b>Temperature</b><br>Method 501.5 & 502.5, (Procedure I, II)  | -20°C to +55°C   | -40°C to +70°C   |
| <b>Temperature shock</b><br>Method 503.5, (Procedure I)  | -20°C to +60°C   | -20°C to +60°C   |
| <b>Solar radiation</b><br>Method 505.5, (Procedure I)  | N/A  | Diurnal Cycle A1,<br>worldwide deployment  |
| <b>Rain</b><br>Method 506.5, (Procedure I)   | 276 kPa, 0,5 - 4,5 mm<br>diameter  | 276 kPa, 0,5 - 4,5 mm<br>diameter  |
| <b>Humidity</b><br>Method 507.5, (Procedure I)   | ten 24 h test cycles<br>95 % (30°C - 60°C)   | ten 24 h test cycles<br>95 % (30°C - 60°C)   |
| <b>Salt fog</b><br>Method 509.5, (Procedure I)   | N/A  | 5+-1 % salt concentration,<br>24 h wet + 24 h dry/cycle,<br>Total: two test cycles / 96 h    |
| <b>Explosive atmosphere</b><br>Method 511.5, (Procedure I)   | passed   | passed   |
| <b>Vibration</b><br>Method 514.6, Category 1<br>Method 514.6, Category 14 (Procedure I)<br>Method 514.6, Category 20 (Procedure I) | Tracked Vehicle Vibration<br>Helicopter Vibration OH58A/C<br>Comp. Wheeled Vehicle Vibration | Tracked Vehicle Vibration<br>Helicopter Vibration OH58A/C<br>Comp. Wheeled Vehicle Vibration |
| <b>Shock / drop</b><br>Method 516.5, (Procedure I)   | 40 G, 11ms<br>122 cm (26 drops)  | 40 G, 11ms<br>122 cm (26 drops)  |

**Optional: 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<br>+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<br>Fixed & Air Force |
| <b>RS101</b> | 30 Hz ~ 100 KHz   | RS101-1, Navy                      |
| <b>RS103</b> | 2 MHz ~ 40 GHz    | 2 MHz ~ 18 GHz,<br>50 V/m          |



Rocky® RK10 closed



Rocky® RK10 interfaces (rear)

Rocky® RK10 rear side  
example for MIL interfaces

Rocky® RK10 full rugged

**Options**

- SXGA+ resolution (1400x1050)
- optional LCD brightness up to 1000 cd/m<sup>2</sup>
- Graphics chip upgrade: nVidia® GT520 series
- I-Temp SLC SSD (-45°C to + 85°C)
- heater for -30°C operating
- enhanced temperature range for +60°C operating
- touch screen resistive, sunlight readable
- 4x RS232/422/485 external interfaces
- 2nd LAN card 10/100/1000 MBit
- fibre optic LAN 100/1000 MBit
- WLAN card (Intel® Centrino Advanced-N 6235 802.11a/g/n)  
incl. Bluetooth v2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0(BLE)
- UMTS / HSDPA (Air Prime MC8305)
- GPS module (Ublox LEA-6H)
- TPM module
- internal CAN BUS interface
- integrated Chip/Smart Card Reader
- internal vehicle adapter (direct 12 V<sub>DC</sub> - 32 V<sub>DC</sub>)  
incl. SP200 module / surge protector
- different keyboard versions available
- isolated Housing for vehicle installation
- military grade connectors for nearly all kind of interfaces  
on request

v2.3

**Optional certifications & modifications**

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

**Accessories**

- second Li-Ion battery 10.8 V, 8700 mAh  
(exchangeable with ODD)
- second HDD/SSD (exchangeable with ODD)
- battery charger for main and second battery
- ROD01.2 DC/DC converter
- transportation bag
- Stormcase (rugged transportation case)
- DockUnder (different versions available)
- ShockMount
- FlexBay module (exchangeable with ODD)  
- the FlexBay allows nearly endless possibilities  
for interfaces or enhancements