

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

Display	LCD 15.1" XGA (1024×768) • LED backlight • sunlight readable • optical bonding	Interfaces (left side)	3x Audio (3.5mm), 1x Gigabit LAN (RJ45), 1x USB 2.0 (fast charge), 2x USB 3.0, 1x PS/2, 1x IEEE 1394a (Firewire), 1x Express Card (PCIe)
Chipset	Intel® Huron River Plattform Intel® Cougar Point QM67	Interfaces (rear side)	1x DC-In, 2x serial (DB9), 1x parallel (DB25), 1x VGA (DB15), 1x RD-DVI (*RD = roda Display remote), 1x docking connector
CPU	Intel® Core™i7-2610UE™, Sandy Bridge, 1,5 GHz (2,4 GHz max. Turbo Frequency)	OS	Windows 7 / 8.1 / 10
Graphics	Intel® HD Graphics 3000	Certification	CE, FCC, WHQL, WEEE, REACH, IP65 (with opened I/O-ports), MIL-STD 810G
Memory	up to 16 GB DDR3 1600 MHz (2x slots)	Housing	rugged magnesium housing
Storage	exchangeable 2,5" SATA HDD (up to 1000 GB) >> optional SATA SSD (up to 600 GB)	Colour	military green (NATO olive / RAL6031HR), black, desert/sand colour, other colours on request
ODD	exchangeable DVD±RW drive (FlexBay)	Dimensions	• 341.4 mm x 283.4 mm x 70.2 mm • 353 mm x 301 mm x 79.2 mm with rubber bumpers
Audio	HD audio, stereo speaker	Weight	5.5 kg
Touchpad	resistive		
Power supply	• Li-Ion battery, 10.8 V, 8700 mAh • AC-adapter - 90 W, 1.2 A, 100~240 V, 50~60 Hz		

MIL-STD 810G	operating	storage
Altitude Method 500.5, (Procedure I, II)	4572 m (15000 ft)	12192 m (40000 ft)
Temperature Method 501.5 & 502.5, (Procedure I, II)	-20°C to +55°C	-40°C to +70°C
Temperature shock Method 503.5, (Procedure I)	-20°C to +60°C	-20°C to +60°C
Solar radiation Method 505.5, (Procedure I)	N/A	Diurnal Cycle A1, worldwide deployment
Rain Method 506.5, (Procedure I)	276 kPa, 0,5 - 4,5 mm diameter	276 kPa, 0,5 - 4,5 mm diameter
Humidity Method 507.5, (Procedure II)	N/A	ten 24 h test cycles 95 % (30°C - 60°C)
Salt fog Method 509.5, (Procedure I)	N/A	5+-1 % salt concentration, 24 h wet + 24 h dry/cycle, Total: two test cycles / 96 h
Explosive atmosphere Method 511.5, (Procedure I)	passed	passed
Vibration 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
Shock Method 516.6, (Procedure I)	40 G, 11ms 122 cm (26 drops)	40 G, 11ms 122 cm (26 drops)
Inhouse test: Drop Method 516.6, (Procedure IV)	76 cm (26 drops) operating only with SSD HDD only in storage mode	76 cm (26 drops) storage

Optional: MIL-STD 461F

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 KHz	Curve #5-5-5
CS115		All
CS116	10 KHz to 100 KHz	I _{max} = 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 ~ 18 GHz, 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/m²
- 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_{DC} - 32 V_{DC})
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

v2.4

**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