Rocky RK9

The Rocky RK9 allows the operation under nearly all environmental conditions. All interfaces and drives are covered separately. The cabinet is equipped with bumpers and provides a maximum of protection against shock, vibration, dust and humidity.

Technical Data

Display	LCD 15.1" XGA (1024×768) LED backlight, sunlight readable
Chipset	**NorthBridge:** Mobile Intel® GM45 Express Chipset Cantiga (G) MCH **SouthBridge:** Intel® ICH9M-Enhanced
CPU	Intel® CPU Core™ 2 Duo Mobile P8400, 2.26 GHz, 1066 MHz FSB, 3 MB shared L2 cache
Graphics	Intel® Graphics Media Accelerator 4500MHD (Intel® GMA 4500MHD) max. 1695 MB shared memory (64 Bit OS) max. 1024 MB shared memory (32 Bit OS)
Memory	Up to 8 GB 2x DDR3 SO-DIMM Slots (The maximum RAM size availability depends on type & version of the installed operating system.)
Storage	Removable 2.5" SATA HDD (Std. 500 GB)
ODD	DVD±RW drive
Audio	HD Sound, Stereo speakers
Keyboard	87 keys standard
Touchpad	resistive type
Power Supply	• Li-Ion battery, 11.1 V, 8700 mAh Battery lifetime 345 min * • AC-Adapter 90 W

Interfaces **(left side)**	1xPS/2, 3xUSB 2.0, 1xIEEE 1394 (Firewire), 3xAudio, 1xGigabit LAN, 1xModem, 1xPCMCIA type I/II, 1xExpress Card (PCIe)
Interfaces **(rear side)**	2xserial DB9, 1xparallel DB25, 1xDC-In, 1x VGA , 1xDP-DVI, 1xDocking Connector
Interfaces **(internal)**	1xmini PCI, 2xmini PCIe, 4xUSB 2.0, 2xserial (TTL, RS232, RS422, RS485)
OS	Windows XP, Windows 7 (32 / 64 Bit)
Certification	IP65 (with I/O-ports open) MIL-STD 810G
Case	rugged magnesium case
Colour	black, military green, desert / sand colour other colours on request
Dimensions	339.6 mm x 287.8 mm x 63.7 mm 351.6 mm x 294.2 mm x 78.7 mm (with rubber bumpers)
Weight	6 kg

* The battery maturities were determined using the MobileMark 2007 benchmark according to the instructions and procedures for BITKOM „product-neutral description of performance for notebooks," version 2.1.

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Rocky RK9

• Rocky RK9 closed

• Rocky RK9 left std.-interfaces

• Rocky RK9 rear std.-interfaces

MIL-STD 810G	Operating	Storage
Altitude Method 500.5, (procedure I, II)	4572 m (15000 ft) 12192 m (with special HDD housing)	12192 m (40000 ft)
Temperature Method 501.5 & 502.5, (procedure I, II)	-20°C to +50°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 I)	Five 48h test cycles 95 %	Five 48h test cycles 95 %
Salt fog Method 509.5, (procedure I)	N/A	5 %, 35° C
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)

• optional MIL grade connectors

Options

• Intel® Core™ 2 Duo Mobile Processor T9400, 2.53 GHz, Level 2 cache 6 MB
• nVidia® GeForce 9300M GS MXM graphics, 512 MB VRAM (Attention: nVidia® chip => battery lifetime 297 min. *)
• Removable SATA SLC SSD (industrial grade)
• Removable SATA HDD upgrade with up to 1 TB capacity
• Resolution SXGA+ (1400x1050)
• Advanced temperature rang -30° with additional heater
• Touchscreen resistive, sunlight readable
• 56k fax/modem MDC
• 2nd LAN card 10/100/1000 MBit
• 4x RS232/422/485 external connectors
• Fiberoptic LAN 100/1000 MBit
• WLAN card (Intel® Pro Wireless 3945ABG 802.11a/b/g)
• UMTS / HSDPA card (Cinterion HC25)
• GPS module (Ublox LEA-6H)
• Bluetooth v2.0 module class 1/2
• Internal CAN BUS interface
• Integrated chip/smart card reader
• Internal vehicle adapter (direct 12 V_{DC}- 32 V_{DC})
• Backlight keyboard with 89 keys
• IP-protected keyboard
• Isolated chassis for vehicle installation
• Military grade connectors for the nearly all interfaces

Optional certifications & modifications

• MIL-STD 461E(F) certification
  - Ground Navy / Ground Army
    (Navy fixed & Air Force / Navy mobile & Army)
• BSI Zone 0 / SDIP 27 Level A
• BSI Zone 1 / SDIP 27 Level B

Accessories

• Second Li-Ion Battery 11.1 V, 8700 mAh (removeable with ODD)
• Second HDD/SSD (removeable with ODD)
• Battery Charger for prim. and sec. battery
• ROD01.2 DC/DC Power Supply
• ROD03 DC/DC Power Supply
• Transport Bag
• Stormcase (rugged transport box)
• DockUnder Standard
• DockUnder Standard Flat
• DockUnder IP54, MIL-STD 810 & 461 proved
• ShockMount
• FlexBay Modules (removeable with ODD)
  - the FlexBay provides nearly unlimited possibilities for additional connections or expansions