

Operating with -20°C
in battery mode!

Panther DK10-M

full rugged 12.1" tablet



The Panther Tablet PC's are characterized by the extraordinary possibility of customization and an enormous robustness. The variety of modules and possible interfaces available with industrial or military connectors is huge. In addition, the Panther tablets offer the same IP65 protection concept as the Rocky® laptops. 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 Panther tablets, the interfaces are decoupled from the mainboard. This enables the devices to be used reliably at extreme ambient temperatures and vibrations.

Technical Specification

Display	12.1" XGA (1024x768) • sunlight readable LCD • LED backlight • resistive touch screen • optical bonding	Interfaces	1x USB2.0, 1x USB3.0 (fast charge), 1x Gigabit LAN (RJ45), 1x serial (DB9), 1x DC-In (MIL), 1x docking connector Multibay: 1x ExpressCard/54, 1x SIM- card slot, 1x SD-card slot
Chipset	Intel® Huron River Platform Intel® Cougar Point QM67	Power supply	• Li-Ion battery, 11.4 V, 7200 mAh • AC-adaptor 100-240 V, 50/60 Hz, 90 W • internal vehicle adapter 12-32 V _{DC} with surge protection
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	IP65 (with opened I/O-ports), MIL-STD 810G, MIL-STD 461F Ground Navy
Memory	up to 8 GB DDR3 1333 MHz SO-DIMM (1x slot)	Housing	rugged magnesium housing
Storage	exchangeable 2.5" SATA HDD (500 GB Std.) >> optional with SATA SSD (MLC or SLC)	Colour	military green (NATO olive / RAL 6031 HR), black, desert/sand colour, other colours on request
Audio	HD audio, stereo speaker	Dimensions	• 290 mm x 240 mm x 42.6 mm • 310 mm x 255 mm x 54 mm with rubber bumpers
Keypad	ON/OFF, LCD brightness, standby, free programmable funktion keys, trackpoint mouse device with left mouse button	Weight	2.5 kg
Security	>> optional TPM1.2 module		

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 +50°C -30°C with heater	-40°C to +70°C
Temperature Shock Method 503.5, (Procedure I)	N/A	-20°C to +60°C
Rain Method 506.5, (Procedure I)	N/A	276 kPa, 0.5 - 4.5 mm diameter
Humidity Method 507.5, (Procedure I)	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
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 / drop Method 516.6, (Procedure I)	40 g, 11 ms	40 g, 11 ms

MIL-STD 461F Ground Navy		
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	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 ~ 8 GHz, 50 V/m



Panther DK10 Interfaces



Panther DK10 with OCR Reader



Panther DK10 with Dual Smart Card Reader



Panther DK10 vehicle installation

Options

- fiberoptic LAN 100/1000 MBit
- WLAN/bluetooth combo card:
 - WLAN (Intel® Centrino Advanced-N 6235 802.11a/g/n)
 - dual mode bluetooth module
 - 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)
- WWAN module, HSPA 3G (Gobi 3000)
- GPS module (Ublox LEA-6H)
- display filter for night vision equipment
- heater for -30°C operating
- 1-2x additional external COM-ports (DB9 interfaces)
- military round connectors for nearly all interfaces on request

Optional certifications & modifications

- MIL-STD 461F certification
 - Ground Army (Navy mobile & Army)
- BSI Zone 1 / SDIP 27 Level B

Accessories

- second Li-Ion battery 11.1 V, 7200 mAh
- sunshade (glare/sight & display protector)
- transportation bag
- StandUnit stand fixation
- vehicle fixation / RAM Mount
- DockLite DL10 (port replicator) for docking connector as standard or MIL version
 - 250 x 37 x 61 mm
 - ca. 0.45 kg
 - interfaces:
 - 2x serial DB9, 4x USB2.0 (2x standard, 2x sealed),
 - 1x VGA (DB15), 1x audio out, 1x audio in, 1x DC-In,
 - 1x Gigabit LAN

