

# Panther

full rugged

# DR13

8.4" 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. Exclusive 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

<b>Display</b>	8.4" XGA (1024x768) <ul style="list-style-type: none"><li>• typ. 750 cd/m<sup>2</sup></li><li>• LED backlight</li><li>• resistive touch screen</li><li>• optical bonding</li></ul>	<b>Interfaces</b>	2x USB3.1 Gen.1 (1x fast charge), 1x Gbit LAN (RJ45), 1x serial (DB9), 1x DC-In (MIL), 1x docking connector Multibay: 1x ExpressCard/54, 1x SIM-card slot, 1x SD-card slot
<b>Chipset</b>	Intel® Kaby Lake-U platform	<b>Power supply</b>	<ul style="list-style-type: none"><li>• Li-ion battery, 10.8 V, 5800 mAh</li><li>• internal vehicle adapter 12-32 V<sub>DC</sub> with surge protection</li><li>• AC-adapter 90 W, 19 V<sub>DC</sub> 3.4 A, 100~240 V<sub>AC</sub> 50/60 Hz</li></ul>
<b>CPU</b>	Intel® Core™i7-7600U™, Kaby Lake, 2.8 GHz (3.9 GHz max. Turbo Frequency)	<b>OS</b>	Windows 10
<b>Graphics</b>	Intel® HD Graphics 620	<b>Certification</b>	CE/FCC/DOE, WEEE, REACH, RoHS2.0, IP65, MIL-STD-810G, MIL-STD-461G
<b>Memory</b>	up to 16 GB DDR4 2133 MHz SO-DIMM (1x slot)	<b>Housing</b>	rugged magnesium housing
<b>Storage</b>	exchangeable 2.5" SATA HDD (500 GB Std.) >> optional with SATA SSD (MLC or SLC)	<b>Colour</b>	military green (NATO olive / RAL6031HR), silver/black
<b>Audio</b>	HD audio, stereo speaker	<b>Dimensions</b>	250 x 190 x 45.2 mm (L x D x H)
<b>Keypad</b>	ON/OFF, LCD brightness, standby, 4 free programmable funktion keys	<b>Weight</b>	2.3 kg
<b>Security</b>	TPM2.0 module		

MIL-STD-810G	operating	storage	MIL-STD 461G
<b>Altitude</b> Method 500.6, (Procedure I, II)	4572 m (15000 ft)	12192 m (40000 ft)	<b>CE101</b> 30 Hz ~ 10 KHz CE101-4 Curve #1
<b>Temperature</b> Method 501.6 & 502.6, (Procedure I, II)	-20°C to +50°C -30°C with heater	-40°C to +70°C	<b>CE102</b> 10 KHz ~ 10 MHz 115 V, Basic Curve +6db
<b>Temperature Shock</b> Method 503.6, (Procedure I)	N/A	-20°C to +60°C	<b>CS101</b> 30 Hz ~ 150 KHz CS101-1 Curve #1
<b>Rain</b> Method 506.6, (Procedure I)	N/A	276 kPa, 0.5 - 4.5 mm diameter	<b>CS114</b> 10 KHz ~ 200 KMz Curve #5-5-5
<b>Humidity</b> Method 507.6, (Procedure I)	N/A	ten 24 h test cycles 95 % (30°C - 60°C)	<b>CS115</b> All
<b>Salt fog</b> Methode 509.56, (Procedure I)	N/A	5+-1 % salt concentration, 24 h wet + 24 h dry/cycle, Total: two test cycles / 96 h	<b>CS116</b> 10 KHz to 100 KMz I <sub>max</sub> = 10 A
<b>Vibration</b> Method 514.7, Category 1 Method 514.7, Category 14 (Procedure I) Method 514.7, 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	<b>RE101</b> 30 Hz ~ 100 KHz RE101-2, Navy <b>RE102</b> 10 KHz ~ 18 GHz RE102-4, Navy Fixed & Air Force <b>RS101</b> 30 Hz ~ 100 KHz RS101-1, Navy
<b>Shock / drop</b> Method 516.7, (Procedure I)	40 g, 11 ms	40 g, 11 ms	<b>RS103</b> 2 MHz ~ 40 GHz <b>vertical:</b> 2 MHz ~ 18 GHz, 50 V/m <b>horizontal:</b> 30 MHz ~ 18 GHz, 50 V/m



Panther DR13 incl. Kommeiste & MIL DockLite



Panther DR13 interfaces



Panther DR13 with external GPS module



Panther DR13 vehicle installation

## Options

- 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 GBit LAN 10/100/1000 MBit
- fiber optic LAN 100/1000 MBit
- display filter for night vision equipment
- heater for -30°C operating
- military round connectors for nearly all interfaces on request

## Optional certifications & modifications

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

## Optional accessories

- second Li-ion battery 10.8 V, 8700 mAh
- multi battery charger
- sunshade (glare/sight & display protector)
- transportation bag
- StandUnit (desktop 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), 2x audio (in & out), 1x DC-In,  
1x Gbit LAN

