

Panther

full rugged

DE13

7" tablet



The 7" Panther DE13 closes the gap between the combat proven 5" and 10" Panther models; the market eagerly awaits this innovation to go „the last mile“. Following the trend of lightweight tablet PCs, the DE13 innovatively combines the great customisability of the Panther series with the slim design of the Lizard® series with a shaped aluminium housing. The powerful Intel® Core™ i7 Processor (Kaby Lake) with a brilliant display of up to 1000 nits brings enormous performance. The device is IP67 and MIL-STD810 certified to withstand the harshest environmental conditions. Similar to the Lizard® series, this model offers customers the opportunity, despite its slim design, to customise the tablet with military connectors.

Technical specification

Display	7" WXGA (1280 x 800) LCD - sunlight readable typ. 800 cd/m ² - resistive multi touch screen	Interfaces	1x Amphenol USB3.1 Type-C, 1x DC-In (3-pin) 1x DockLite connector, 2x ext. antenna signal
Chipset	Intel® Kaby Lake-Y platform	Security	<ul style="list-style-type: none">• Kensington cable lock slot• Password security (supervisor password, user password)• TPM2.0 module
CPU	Intel® 7th Gen. Intel® Core™i7-7Y75 (4 MB Cache, up to 3.6 GHz)	Certification	CE/FCC, WEEE, REACH, WHLK, RoHS2.0, IP67, MIL-STD-810G, MIL-STD-461G
Graphics	Intel® HD Graphics 615	OS	Windows 10
Memory	16 GB LPDDR3, 1066 MHz	Case	milled anti-corrosive aluminum
Storage	M.2 2280 SSD 128 - 256 GB I-Temp	Colour	military green (NATO olive / RAL6031HR), black
Audio	HD Audio and mono speakers embedded digital mic	Dimension	250 x 144 x 30.5 mm (L x D x H)
Button	1 st layer: power, Win, Fn lock, input lock, 3x application key 2 nd layer: Esc, F2, Enter, →, ↓ backlight	Weight	1.15 kg incl. battery (ca. 180 g)
Power Supply	<ul style="list-style-type: none">• 12~32V with BVA & surge protector• Li-ion battery 7.4V, 4400 mAh• AC-adapter 90 W, 19 V_{DC}, 3.4 A, 100V~240 V_{AC}, 50/60 Hz		
Sensors	light sensor		

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 +60°C *optional heater for -30°C	-40°C to +70°C
Temperature shock Method 503.5, (Procedure I)	-20°C to +60°C	-20°C to +60°C
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 48 h test cycles 95 %	five 48 h test cycles 95 %
Salt fog Method 509.5, (Procedure I)	N/A	5 %, 35° C
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 516.5, (Procedure I)	40 G, 11ms	122 cm (26 drops)

MIL-STD 461G		
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	TDB	
CS115	TDB	
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	2MHz ~ 18 GHz	



Panther DE13 docking port



Panther DE13 example for MIL interfaces

Options

- WiFi module (Intel® Dual Band-Wireless-AC 8265)
 - WLAN 802.11 a/b/g/n/ac
 - Bluetooth 2.1+EDR, 3.0+HS, 4.0, 4.1, BLE, 4.2
- GPS module u-blox M8N (GPS/GLONASS)
- front camera 0.3M Pixels
- invisible mode
- wide temperature -30°C operating
- additional sensors: AMG sensor module
accelerometer, magnetometer, gyroscope

Optional certifications & modifications

- MIL-STD-461G certification
 - Ground Army (Navy mobile & Army)

Customization for MIL interfaces (left side)

- optional MIL Fischer I/O-ports: (max. 2 MIL-interfaces possible)
- 1x USB 2.0
 - 1x Displayport
 - 1x GBit LAN
 - 1x audio
 - 1x COM (1x RS232/1x RS422)
 - 1x sealed headset (headphone + mic)

Optional accessories

- transportation bag
- adapter cable for MIL-interfaces
- 2nd battery 7.4 V 4400 mAh Li-ion

