

Panther

rugged ultralight

DS13

10.1" tablet



Following the trend of lightweight tablet PC, the Panther DS13 combines the high mobility of the Panther series with the slim design of Lizard® series. The Powerful Intel® Core™ i7 processor provides a outstanding performance. The device is IP65 and MIL-STD810 certified to withstand even the harshest environmental conditions. As the Lizard® series the Panther DS13 provides also options for custom-specific MIL-grade connectors.

Technical specification

Display	LCD 10.1" WUXGA (1920x1200) 16:10 • LED backlight • sunlight readable typ. 800 cd/m ² • resistive multi touch screen	Interfaces (left side)	Variant 1: 2x USB 3.1, 1x mini Displayport Variant 2: 1x GLAN RJ45, 1x mini Displayport, 1x USB3.1
Chipset	Intel® Kaby Lake-Y platform	Interfaces (right side)	1x DC-In (2-Pin)
CPU	Intel® 7th Gen. Intel® Core™i7-7Y75 (4 MB Cache, up to 3.6 GHz)	Interfaces (top side)	micro SD card slot
Graphics	Intel® HD Graphics 615	Interfaces (bottom side)	1x DockLite connector, 2x ext. antenna signal
Memory	16 GB LPDDR3, 1866 MHz	OS	Windows 10
Storage	mSATA 2280 SSD 128 - 512 GB I-Temp	Certification	CE/FCC, WEEE, REACH, RoHS2.0, full IP65 (with opened I/O-port covers), MIL-STD-810G, MIL-STD-461G
Audio	HD Audio and mono speakers	Housing	milled anti-corrosive aluminum
Buttons	power button, function keys	Colour	military green (NATO olive / RAL6031HR), black
Power supply	• 12~32V with BVA & surge protector • Li-ion battery 11.1 V, 4200 mAh • AC-adapter 90 W, 19 V _{DC} , 3.4 A, 100~240 V _{AC} , 50/60 Hz	Dimensions	286 x 193 x 27 mm (L x D x H)
Sensor	light sensor	Weight	1.39 kg with battery (ca. 0.3 kg)
Security	• Kensington cable lock slot • password security (supervisor password, user password) • TPM2.0 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 +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 20 (Procedure I) Method 514.6, Category 24 (Procedure IV)	Comp. Wheeled Vehicle Vibration	Comp. Wheeled Vehicle Vibration General minimal integrity
Shock / drop Method 516.5, (Procedure I)	40 G, 11ms 122 cm (26 drops)	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	TDB	



Panther DS13 with DockLite



Panther DS13 docking port



Panther DS13 left side example for MIL interfaces



Panther DS13 left side standard connectors

Options

- capacitive multi touch screen (typ. 1000 cd/m²)
- 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)
- additional sensors: AMG sensor module
accelerometer, magnetometer, gyroscope
- embedded digital mic
- barcode reader (trade-off with micro SD card slot)
- COM port (trade-off with micro SD card slot)
- wide temperature range for -30°C (heater)
- night vision mode (trade-off with invisible mode)
- invisible mode (trade-off with night vision mode)

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. 4 MIL-interfaces possible)

- up to 2x MIL COM [not switchable by BIOS]
(2x RS232 or 1x RS232 + 1xRS422)
- 1x MIL Audio (audio or headset)
- 1x MIL VGA / RGB interface for external display
- 1x MIL USB2.0 interface
- 1x MIL Gigabit LAN interface

Optional accessories

- transportation bag
 - adapter cable for MIL-interfaces
 - double capacity Li-ion battery 11.1 V, 8400 mAh
 - battery charger
 - external vehicle adapter
 - DS11 DockLite
- available interfaces:
- 1x VGA, 1x MLAN, 2x USB2.0, 1x COM, 1xDC-In
 - optional with antenna pass-through for
1x WWAN (SMA), 1x GPS (SMA)

