

Panther

rugged ultralight

DS11

10.1" tablet



Following the trend of lightweight tablet PC, the Panther DS11 combines the high mobility of the Panther series with the slim design of Lizard® series. The Powerful Intel® Core™ i7 processor provides a reasonable performance. The device is IP65 and MIL-STD810 certified to withstand even the harshest environmental conditions. As the Lizard® series the Panther DS11 provides also options for custom-specific MIL-grade connectors.

Technical specification

Display	LCD 10.1" WUXGA (1920x1200) 16:10 <ul style="list-style-type: none"> • LED backlight • sunlight readable typ. 1000 cd/m² • capacitive multi touch screen • optical bonding 	Interfaces (left side)	2x USB 3.0 (1x fast charge 1.2 V & 1.5 A), 1x mini Displayport, 1x micro SD (SDHC/SDXC) card slot, 1x docking port
Chipset	Intel® Chief River Plattform Intel® Controller Hub Mobile (PCH) QM77	Interfaces (right side)	1x DC-In (2-Pin)
CPU	Intel® Core™ i7-3537U, 2.0 GHz, 4 MB Intel® Smart Cache (Turbo 3.1 GHz)	Security	Kensington Lock, >> <i>optional TPM 1.2</i>
Graphics	Intel® HD Graphics 4000	Sensor	light sensor >> <i>optional sensor modules: Accelerometer/Gyroscope/Magnetometer</i>
Memory	up to 8 GB DDR3 1600 MHz SO-DIMM (1x slot)	OS	Windows 7 / 8.1 / 10
Storage	mSATA III SSD drive 128 / 256 GB MLC >> <i>optional SLC SSD on request</i>	Certification	CE/FCC, WEEE, REACH, RoHS2.0, full IP65 (with opened I/O-port covers), MIL-STD 810G
Audio	HD audio and mono speaker, embedded mic	Housing	milled anti-corrosion aluminum
Buttons	Power Button, function keys	Colour	military green (NATO olive / RAL6031HR)
Power supply	<ul style="list-style-type: none"> • Li-polymer battery, 11.1 V, 4200 mAh • AC-adapter 90 W 100V~240V 50/60Hz • built-in vehicle adapter 12-32 V_{DC} 	Dimensions (L x D x H)	280 x 186 x 20 mm (without bumper) 286 x 193 x 27 mm (with bumper)
		Weight	1.39 kg with battery (battery ca. 0.3 kg)

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 +55°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)

Optional: MIL-STD 461F		
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 DS11 with DockLite



Panther DS11 docking port



Panther DS11 left side example for MIL interfaces



Panther DS11 left side standard connectors

Options

- resistive single touch screen
- WiFi combo module 802.11 a/g/n/BT 4.0:
 - WLAN: Intel® Centrino Advanced-N 6235, 802.11 a/b/g/n [WiFi / BT]
 - Bluetooth 4.0 (compatible with: 2.1, 2.1+EDR, 3.0, 3.0+HS)
- GPS uBlox Neo-M8N
- 2D Barcode Reader
- Smart Card Reader
- Surge protector (SP200 module)
- 1MPixel HD webcam (front side)
- 5MPixel auto focus camera (rear side)
- additional sensor modules:
 - Accelerometer/Gyroscope/Magnetometer
- TPM 1.2 module
- wide temperature range for -30°C to +55°C operating only with I-Temp certificated SSD (SLC / MLC)
- night vision mode (trade-off with invisible mode)
- invisible mode (trade-off with night vision mode)
- configuration for I/O-Ports (left side):
 - Standard: 1x mini Displayport, 2x USB3.0
 - Option 1: 1x GLAN RJ45, 1x mini Displayport, 1x USB3.0

Optional certifications & modifications

- MIL-STD 461F certification
 - Ground Navy (Navy fixed & Air Force)
 - ! only with resistive touch screen possible !

Customization for MIL interfaces (left side)

- optional interfaces as MIL grade connectors, e.g.: (max. 4 MIL-interfaces possible)
 - up to 2x MIL COM interfaces [not switchable by BIOS] (2x RS232 or 1x RS232 + 1xRS422)
 - MIL Audio interface (audio or headset)
 - MIL VGA / RGB interface for external display
 - MIL USB2.0 interface
 - MIL Gigabit LAN interface

Accessories

- transportation bag
 - adapter cable for MIL-interfaces
 - DS11 DockLite
- available interfaces:
- 1x VGA, 1x MLAN, 2x USB2.0, 1x COM, 1xDC-In
 - optional with antenna pass-through for

