

# MilDef DE13



## **7" rugged handheld tablet for demanding environments**

You shouldn't have to compromise to get a unit with both a slim and rugged design, the MilDef DE13 is based on a slim aluminium chassis for minimal footprint without losing robustness and high performance in extreme environments.

It can be utilized as a handheld unit for mobile operations or installed in cramped confined spaces. Either way DE13 will fill up the gap between smart phones and tablets with a familiar Windows operating system.

The DE13 features a high-brightness 7" resistive multi-touch display, CNC milled lightweight aluminum chassis and a powerful Intel i7 CPU. And it comes with a wide selection of customization options that ranges all from military connectors to wireless connectivity options.

Built for the toughest environment and for use in combat, the DE13 is IP67 rated as well as certified to both MIL-STD-810 and MIL-STD-461.

## **Guaranteed performance**

Products supplied by MilDef are always provided with lifetime support to ensure that the equipment maintains peak performance over many future missions.

## Technical Specification

<b>CPU</b>	Intel® Kaby Lake i7-7Y75 4M Cache, up to 3.60GHz
<b>RAM</b>	16 GB, LPDDR3 1866 MHz
<b>Graphic</b>	Intel® HD Graphics 615
<b>Storage</b>	M.2 2280 M key SATAIII SSD
<b>Display</b>	7" WXGA LCD, 1280 x 800, B/L 640~800 nits, resistive multi-touch,
<b>Audio</b>	HD Audio and mono speakers Embedded digital mic
<b>Interfaces (front)</b>	Power button Function Keys with LED Backlight
<b>Interfaces (right)</b>	1x DC-in Fischer 3-pin Connector 1x USB3.1 Type C 2x Fischer I/O Available Fischer I/O connectors: <ul style="list-style-type: none"> <li>- USB 2.0</li> <li>- Display Port</li> <li>- GLAN</li> <li>- COM (RS232/RS422)</li> <li>- Audio</li> <li>- Sealed Headset</li> </ul>
<b>Interfaces (bottom)</b>	- Docklite Connector: 35 pin POGO (1x USB3.1, 1x DP) - 2x Ext ANT Signals
<b>Interfaces (internal)</b>	1x Mini PCIe 1x M.2 2230 E key (For WiFi/BT) 6x USB2.0 1x USB3.1 1x SATA 1x COM1 (RS232) 1x COM2 (RS422) 1x Audio
<b>Battery</b>	Replaceable embedded battery 7.4V / 4400 mAh Li-Ion battery
<b>Power Input</b>	DC 12- 32V with Built-in Vehicle adapter & Surge Protector B type
<b>Case</b>	CNC milled Aluminum
<b>Dimensions</b>	250 x 144 x 30.5 mm (W x D x H with bumpers) 242.5 x 142 x 26 mm (W x D x H w/o bumpers)
<b>Weight</b>	1.15 kg with battery (depending on configuration)
<b>Certifications</b>	CE, FCC, WEEE, REACH, RoHS 2.0, IP67, MIL-STD-810G* and MIL-STD-461G*
<b>Operating System</b>	Windows 10

\*Contact MilDef for full specifications of MIL-STD-810G and MIL-STD-461F

## MIL-STD-810G

	Operating	Storage
<b>Altitude</b> Method 500.5, (Procedure I, II)	4572 m (15000 ft)	12192 m (40000 ft)
<b>Temperature</b> Method 501.5 & 502.5, (Procedure I, II)	-20°C to 55°C (-4°F to 122°F)	-40°C to 70°C (-40°F to 158°F)
<b>Temp Shock</b> Method 503.5 (Procedure I-C)	-	-40°C to 80°C (-40°F to 176°F)
<b>Shock</b> Method 516.5, 516.6 (Procedure I and IV)	40g, 11ms, terminal-peak sawtooth shock pulse Procedure 1, Category 20 (Ground Vehicles- Ground mobile)	122 cm (26 drops)
<b>Vibration</b> Method 514.6 (Procedure I, IV, Category 20 & 24)	Table 514.6C-VI (Composite wheeled vehicle vibration exposures) Figure 514.6C-3, 60-minutes/axis	Procedure IV, Category 24, General minimal integrity
<b>Rain</b> Method 506.5, (Procedure II)	276 kPa, 5 Surfaces, 40 min/Surface	-
<b>Humidity</b> Method 507.5, (Procedure II Aggravated)	-	Ten 24 h test cycles 95% RH, non- condensing
<b>Salt Fog</b> Method 509.5, (Procedure I)	-	Salt 5 ± 1 %, 24 h wet + 24 h dry/cycle. Total 2 cycles / 96 h
<b>Options</b>		
<b>Communications</b>	GNSS - Ublox M8N (GPS/GLONASS) WLAN (a/b/g/n/ac) / Bluetooth WWAN 4G	
<b>Display</b>	- Night Vision - Invisible mode	
<b>Security</b>	TPM2.0	
<b>Extended temperature (Operational)</b>	-30°C to 60°C (-22°F to 140°F)	
<b>Power</b>	2 <sup>nd</sup> hot swappable battery 7.4V / 4400 mAh Li-Ion battery	
<b>Misc.</b>	- 0.3M Pixels front camera - External charger - Ground Army certification	

