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

CPU	Intel® i7-7Y75 4M Cache, up to 3.60GHz
RAM	16 GB, LPDDR3 1866 MHz
Graphic	Intel® HD Graphics 615
Storage	M.2 2280 M key SATAIII SSD
Display	7" WXGA LCD, 1280 x 800, B/L 640~800 nits, resistive multi-touch
Audio	HD Audio and mono speakers Embedded digital mic
Interfaces (front)	Power button Function Keys with LED Backlight
Interfaces (right)	1 x DC-in Fischer 3-pin Connector 1 x USB3.1 Type C
Interfaces (bottom)	- Docklite Connector: 35 pin POGO (1x USB3.1, 1x DP) - 2 x Ext ANT Signals
Interfaces (internal)	1 x Mini PCIe 1 x M.2 2230 E key (For WiFi/BT) 6 x USB2.0 1 x USB3.1 1 x SATA 1 x COM1 (RS232) 1 x COM2 (RS422) 1 x Audio
Battery	Replaceable embedded battery 7.4V / 4400 mAh Li-Ion battery
Power Input	DC 12- 32V with Built-in Vehicle adapter & Surge Protector B type
Case	CNC milled Aluminum
Dimensions (W x D x H)	250 x 144 x 30.5 mm with bumpers (9.84 x 5.67 x 1.20 in) 242.5 x 142 x 26 mm w/o bumpers (9.55 x 5.59 x 1.02 in)
Weight	1.15 kg (2.53 lb) with battery
Certifications	CE, FCC, WEEE, REACH, RoHS 2.0, IP67, MIL-STD-810G* and MIL-STD-461G*
Operating System	Windows 10

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

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 (-4°F to 122°F)	-40°C to 70°C (-40°F to 158°F)
Temp Shock Method 503.5 (Procedure I-C)	-	-40°C to 80°C (-40°F to 176°F)
Shock Method 516.5, 516.6 (Procedure I and IV)	40g, 11ms, terminal-peak sawtooth shock pulse	122 cm (26 drops)
Vibration Method 514.6 (Procedure I, IV, Category 20 & 24)	Procedure 1, Category 20 (Ground Vehicles-Ground mobile) Table 514.6C-VI (Composite wheeled vehicle vibration exposures) Figure 514.6C-3, 60-minutes/axis	Procedure IV, Category 24, General minimal integrity
Rain Method 506.5, (Procedure II)	276 kPa, 5 Surfaces, 40 min/Surface	-
Humidity Method 507.5, (Procedure II Aggravated)	-	Ten 24 h test cycles 95% RH, non-condensing
Salt Fog Method 509.5, (Procedure I)	-	Salt 5 ± 1 %, 24 h wet + 24 h dry/cycle. Total 2 cycles / 96 h

Options

Interfaces	2x Sealed Fischer connector I/O Available interfaces: USB 2.0, Display Port, Giga LAN, COM (RS232/RS422), Audio, Sealed Headset
Communications	GNSS - Ublox M8N (GPS/GLONASS) WLAN (a/b/g/n/ac) / Bluetooth WWAN 4G
Display	- Night Vision - Invisible mode
Security	TPM2.0
Extended temperature	-30°C to 60°C Operational (-22°F to 140°F)
Power	2nd hot swappable battery 7.4V / 4400 mAh Li-Ion battery
Misc.	- 0.3M Pixels front camera - External charger - Ground Army certification

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