MilDef DT13

Rugged tablet with built-in keyboard

The MilDef DT13 offers a rugged 9” tablet with a powerful Intel® Core™ i7 processor and resistive multi-touch display. Designed for tactical military environments where reliability and performance are key.

Customizable

Are you looking for features and functions beyond the standard solution? MilDef are specializing and customized solution and we offer change of connectors, chassis modifications, mounting solutions, etc. Contact your nearest local MilDef Sales Office and we will help you find a solution that meets your requirements.

Guaranteed performance

Our products come with a lifetime support to ensure your equipment maintains peak performance for many missions to come. We also guarantee spare parts for 5 year after product end-of-life.

Features

- Intel® Core™ i7-7600
- 16 GB RAM
- 9” display
- Removable M.2 SSD
- Resistive Multi-Touch Screen
- Qwerty Keyboard
- Aluminum Case
- MIL-STD-810
- MIL-STD-461
- IP65

MilDef DS13 IP67

Technical Specification

CPU	Intel® Core™ i7-7600 Processor
BIOS	AMI
RAM	Up to 16GB DDR4 2133 MHz
Graphic	Intel® HD Graphics 620
Storage	M.2 2280 SATAIII SSD
Display	9" WXGA (1280 x 800), Resistive Multi-Touch Screen 850 nits Invisible Mode On/Off
Sound	HD Audio and mono speakers Embedded Digital Mic
Keyboard	Qwerty Keyboard
GPS	GPS/GLONASS (optional)
Security	TPM2.0
OS	Windows 10
MTBF (Ground Benign)	~ 59.000 h (60°C)
Power Input	12- 32 VDC w. built-in vehicle adapter (including surge protector & polarity protection)
Battery	10.8V / 5800 mAh Li-Ion (standard) 10.8V / 8700 mAh Li-Ion (optional)
Case	CNC milled Aluminum
Power consumption	Idle (100% brightness): 17 W Full Load (incl. charging): 90 W
Dimensions (W x D x H)	250 x 190 x 45 mm (w. bumpers)
Weight	2,5 kg
Temperature range:	-30°C + 50°C (operating) -40°C + 71°C (storage)
Certifications	CE, FCC, IP65, MIL-STD-810G and MIL-STD-461G, REACH, RoHS
Accessories	Docking station, Secondary Battery, LCD-cover, Multi-Battery charger.
Other	More options and accessories are available at request.

Connector Interfaces

Interfaces (left)	2x USB 3.1 Gen 1 (Type A) 1x USB 3.1 Gen 1 (Type C) 1x Battery slot 1x Multi Bay • 1x Express card slot • 1x Sim card slot • 1x SD card slot
Interfaces (right)	1x DC in (Amphenol 62IN Series) 1x GLAN (RJ45) 2x RS232 (in one DB15)
Interface (bottom)	1x Docking port with: - 1x Power - 1x Power On/Off - 1x DVI - 1x VGA - 1x GLAN - 1x RS232 - PCIe x1 - USB3.0 - SATA - - Line in / out (stereo) /Mic in
Interfaces (internal)	1x Mini PCIe 1x M.2 2280 SATAIII 1x M.2 2230 NVMe (WiFi/BT) 4x RS232 4 x USB 2.0
Interfaces (rear)	2nd Battery Connector
Buttons (front)	Power button, APP1, APP2, Invisible mode on/off and Input Lock

Left

Right

MilDef reserves the right to update the information at any time without notice

Environmental Specification

Low Air pressure	
Low air pressure – Rapid Decompression MIL-STD-810G, Method 500.6, *Procedure III - Rapid Decompression*	12.192 m / 40.000 ft (Storage)
Low air pressure - Operating MIL-STD-810G, Method 500.6, *Procedure II - Operation/Air Carriage*	4.572 m / 15.000 ft
IP Class	
IP	IP65
Freeze/Thaw	
Freeze/Thaw – Operational MIL-STD-810G, Method 524.1 Procedure III - Rapid Temperature Change	According to method and procedure
Humidity	
Humidity – Storage MIL-STD-810G, Method 507.6 Procedure II (Aggravated) - Figure 507.6-7	24-hours per cycle / Total of 10 cycles Between 30°C (86°F) and 60°C (140°F) with the relative humidity at 95% constant
Rain	
Rain – Operating MIL-STD-810G, Method 506.6 *Procedure II*	276kPa(40psig) 5-surfaces 40-minutes/surface
Shock	
Transit Drop Test - Storage MIL-STD-810G, Method 516.6 *Procedure IV – Transit drop test* Functional Shock - Operating MIL-STD-810G, Method 516.7 Procedure I - Figure 516.7-10	122cm / 48” Onto each face, edge and corner Total of 26 drops Table 516.7-IV Terminal-peak sawtooth shock pulse 40g, 11ms
Salt Fog	
Salt fog MIL-STD-810G w/Change 1, Method 509.6	5 % +- 1 % (by weight) 24 h wet + 24 h dry /cycle Total 2 cycles / 96 hours
Temperature	
Low temperature - Operating MIL-STD-810G w/Change 1, Method 502.6 *Procedure II – Operation*	-30 °C / -22 °F
Low temperature - Storage MIL-STD-810G w/Change 1, Method 502.6 *Procedure I – Storage*	-40 °C / -40 °F
High temperature - Operating MIL-STD-810G w/Change 1, Method 501.6 *Procedure II – Operation*	50 °C / 122 °F
High temperature - Storage MIL-STD-810G w/Change 1, Method 501.6 *Procedure I – Storage*	71 °C / 160 °F
Temperature Shock – Non-Operating MIL-STD 810G w/Change 1, Method 503.6 *Procedure I–C (Figure 503.6-3)*	-40°C / -40°F to 71°C / 160°F
Vibrations	
Vibration - Operational MIL-STD-810G, Method 514.7 *Category 20* - (Ground Vehicles-ground mobile)	Table 514.7C-VI Composite wheeled vehicle vibration exposure Figure 514.7C-4, 60-minutes/axis

MilDef reserves the right to update the information at any time without notice

EMC Specification

CE	
EMI	EN55032 Class B (2015) IEC/EN61000-3-2 (2018) IEC/EN61000-3-3 (2013/A1:2017) EN55035:2017 EN55024 (2010/A1:2015) - IEC EN61000-4-2(2008) - IEC EN61000-4-3(2006+A2:2010) - IEC EN61000-4-4(2012) - IEC EN61000-4-5(2014+A1:2017) - IEC EN61000-4-6(2014) - IEC EN61000-4-8(2010) - IEC EN61000-4-11(2004/A1:2017)
EMS	EN 301 489-1 V2.2.0 (2017) EN 301 489-17 V3.2.0 (2017) EN 301 489-19 V2.1.0 (2017) EN 300 328 V2.1.1(2016-11) EN 301 893 V2.1.1(2017-05) EN 301 413 V1.1.1(2017-06) EN62209-2 2010 EN50566 2017 EN62479 2010 EN60332-2 2013
LVD	LVD 60950 - EN60950-1: - 2005 + Am 1:2009 + Am 2:2013 - 2006 +A11:2009 +A1:2010 +A12:2011 +A2:2013
FCC	
FCC 47 CFR Part 15 Subpart B Conducted Emission	150 kHz to 30 MHz
FCC 47 CFR Part 15 Subpart B Radiated Emission	30 MHz to 13000 MHz
FCC 47 CFR Part 15 Subpart C	802.11 a/b/g/n, Bluetooth
FCC 47 CFR Part 15 Subpart E	802.11 a
OET65C	SAR
MIL-STD-461G	
MIL-STD-461G, Method CE101	Conducted Emissions, Power Leads 30Hz to 150kHz
MIL-STD-461G, Method CE102	Conducted Emissions, Power Leads 10 kHz to 10 MHz
MIL-STD-461G, Method CS101	Conducted susceptibility, power leads 30 Hz to 150 kHz
MIL-STD-461G, Method CS114	Bulk Cable Injection 10kHz to 200MHz
MIL-STD-461G, Method CS115	Conducted susceptibility, bulk cable injection, impulse excitation
MIL-STD-461G, Method CS116	Conducted Susceptibility, Damp Sinusoidal Transients, Cables and Power Leads, 10 kHz to 100 MHz
MIL-STD-461G, Method CS118	Personnel borne electrostatic discharge – All (ESD)
MIL-STD-461G, Method RE101	Radiated Emissions, Magnetic Field 30Hz to 100kHz
MIL-STD-461G, Method RE102	Radiated Emissions, Electric Field 10kHz to 18GHz
MIL-STD-461G, Method RS101	Radiated Susceptibility, Magnetic Field 30Hz to 100kHz
MIL-STD-461G, Method RS103	Radiated Susceptibility, Electric Field 2MHz~18GHz

MilDef reserves the right to update the information at any time without notice