

A powerful rugged tablet in a slim factor

You shouldn't have to compromise with the DS13 to get a slimmed, powerful and fully rugged tablet.

Keeping true to the MilDef brand the MilDef DS13 puts emphasis on low weight, a powerful Intel® Core™ i7 CPU and a rugged design.

The tablet features a high-brightness 10,1" resistive multi-touch display, CNC milled lightweight aluminium chassis and a wide selection of customization options that ranges all from military connectors to wireless connectivity options.

When it gets tough out in the field you don't have to worry, the MilDef DS13 is IP65 rated as well as certified to both MIL-STD-810 and MIL-STD-461 standards.

Customizable

Are you looking for features and functions beyond the standard solutions offered by large commercial manufacturers? MilDef products are designed to enable customization to your specific program requirements, e.g. connectors, chassis modifications, mounting solutions, etc. Contact your nearest MilDef Sales Office and we will help you to find a solution that meets your requirements.

Guaranteed performance

All MilDef products come with comprehensive lifecycle sustainment support to ensure your equipment maintains peak performance for many missions to come. We also guarantee the availability of spare parts for 5 years after product end-of-life.

Features

- Intel® Core™ i7-7Y75
- 16 GB RAM
- 10.1" display
- Resistive Multi-Touch
- Docking connector
- Wi-Fi, BT, &GPS (optional)
- Ground Army (optional)
- Water and dust resistant (IP65)



Technical Specificat			
CPU	Intel® Core™ i7-7Y75		
Display	10.1" WUXGA (1920 x 1200)		
Touch screen	Brightness: 800 nits		
Case	Resistive Multi-Touch Screen		
Software	CNC milled Aluminum (Green or black)		
Operating system	Windows 10		
Memory	Williams 15		
RAM	Up to 16GB LPDDR3 1866 MHz		
Storage	Removable mSATA III SSD 128GB/256GB/512GB		
Graphics			
GPU	Intel® HD Graphics 615		
Battery			
Standard	11.1V / 4200 mAh Li-Ion battery.		
Dual capacity	11.1V / 8400 mAh Li-Ion battery.		
Sound			
Audio	HD Audio		
Security & Management	t		
TPM	TPM2.0 optional		
Interfaces			
Ethernet	2x Ethernet 1000Base-T optional		
WIFI/Bluetooth	802.11 a/b/g/n/ac optional Bluetooth 5.0 optional		
GPS	Ublox Neo-M8N GPS/GLONASS optional		
USB	2x USB 3.1 1x USB 2.0 <i>optional</i>		
Video	Mini DP		
Audio	Headphone out/Mic in combo optional Headphone out/mic in combo optional		
Docking port	Yes		
SD card	Yes (micro SD)		
Speaker	Mono Speakers		
Antenna	2x Antenna signals optional		
Serial	2x COM* optional		
Buttons	 Power button 13 x Function keys with LED Backlight 		

Light sensor

Tachuical Cuacifica	otion ()
Technical Specifica Size & Weight	ition (cont.)
_	286 x 193 x 27 mm
Dimensions with bumpers (W x D x H)	(11.3 x 7.6 x 1.1 ln)
Weight	
Temperature Range	1.5 kg (3.3 lbs) with battery
Operational DC	-20°C to +60°C (-4°F to +140°F)
operational De	Extended Low Temperature option -30°C to +60°C (-22°F to +140°F)
	Battery is charging between 0°C to +50°C (32°F to 122°F)
Operational Battery	-10°C to +60°C (14°F to +140°F)
Storage	-40°C to +71° (-40°F to +160°F)
Reliability	
MTBF	58 256 hours
(Ground Benign)	
MTTR	TBD
Power	
Power input	12- 32 VDC w. surge protector
Operating time	4 hours (std battery)
Power consumption	Idle: 8W
AC Adapter	Max: 50W Please see the accessories section
Standards	ricuse see the accessories section
CE / FCC	Yes / Yes
REACH	Yes
Environment	MIL-STD-810G
	IP65
EMC/EMI	MIL-STD-461G Ground Navy MIL-STD-461G Ground Army <i>optional</i>
Warranty	
Warranty	5 years
Customization	
Need anything not incl	uded in the data sheet? MilDef products

are designed to enable customization to your specific program requirements. Please contact your MilDef sales team member to

find the best solution for your requirements.



Sensor

^{*} Can be selected via BIOS RS232/RS422/RS485

Accessories & Options

AC/	DC	Ada	pters
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AC Adapter 90W (EU) – Indoor Use 110/220VAC (100~240 VAC), 50/60 Hz AC Adapter 90W (US) – Indoor Use 110/220VAC (100~240 VAC), 50/60 Hz AC Adapter 90W Ground Army – Indoor Use (EU) 110/220VAC (100~240 VAC), 50/60 Hz AC Adapter 90W Ground Army – Indoor Use (US) 110/220VAC (100~240 VAC), 50/60 Hz

AC90 – AC adapter 90W Ground Navy

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AC90 – AC adapter 90W Ground Army (IP65, MIL-STD-810G, MIL-STD-461F & Wide temp) 110/220VAC (90~264 VAC), 50/60 Hz or 400Hz

Mounting & Transport

(IP65, MIL-STD-810G, MIL-STD-461F & Wide temp)

Docking and mounting solutions Please get in contact with your MilDef sales office for

options

Bag / Backpack Please get in contact with your MilDef sales office for

options

Single Battery Charger Work with Standard battery or dual capacity battery

Operating system

Windows 10



Environmental Specification	
Low Air pressure	
Low air pressure – Rapid Decompression MIL-STD-810G w/ change 1, Method 500.6, Procedure I - Storage/Air Transport Low air pressure - Operating	12.192 m / 40.000 ft
MIL-STD-810G w/ change 1, 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 w/ change 1, Method 524.1 Procedure III - Rapid Temperature Change Humidity	According to method and procedure
Humidity – Storage	24-hours per cycle / Total of 10 cycles
MIL-STD-810G w/ change 1, Method 507.6 Procedure II (Aggravated) - Figure 507.6-7 Rain	Between 30°C (86°F) and 60°C (140°F) with the relative humidity at 95% constant
Rain – Operating	276kPa(40psig)
MIL-STD-810G w/ change 1, Method 506.6	5-surfaces
Procedure II	40-minutes/surface
Shock	To minutes, surface
Functional Shock - Operating	Table 516.7-IV
MIL-STD-810G w/ change 1, Method 516.7	Terminal-peak sawtooth shock pulse
Procedure I - Figure 516.7-10	40g, 11ms
Salt Fog	J.
Calt fag Ctarage	Salt concentration of 5 % +- 1 %
Salt fog – Storage MIL-STD-810G w/ change 1, Method 509.6	24 h wet + 24 h dry /cycle Total 2 cycles / 96 hours
Temperature	Total 2 cycles y 50 hours
Low temperature - Operating	
MIL-STD-810G w/ change 1, Method 502.6 Procedure II – Operation Low temperature - Storage	-20 °C / -4 °F (optional -30 °C / -22 °F)
MIL-STD-810G w/ change 1, Method 502.6 Procedure I – Storage High temperature - Operating	-40 °C / -40 °F
MIL-STD-810G w/ change 1, Method 501.6 Procedure II – Operation High temperature - Storage	60 °C / 140 °F
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 w/ change 1, Method 514.7 Category 20 - Ground Vehicles-ground mobile	Table 514.7C-V Composite wheeled vehicle vibration exposure Figure 514.7C-4, 60-minutes/axis
Vibration Storage MIL-STD-810G w/ change 1, Method 514.7	60-minutes/axis



Category 24 - General minimal integrity

EMC Specification (optional)

MII	-STI	D-4	61	G

Conducted emissions, power leads MIL-STD-461G, Method CE101

30Hz to 10kHz

Conducted emissions, power leads MIL-STD-461G, Method CE102

10 kHz to 10 MHz

Conducted susceptibility, power leads MIL-STD-461G, Method CS101

30 Hz to 150 kHz

Conducted susceptibility, bulk cable injection MIL-STD-461G, Method CS114

10kHz to 200MHz

Conducted susceptibility, bulk cable MIL-STD-461G, Method CS115

injection, impulse excitation Conducted susceptibility, damp sinusoidal transients, cables and power leads

MIL-STD-461G, Method CS116 10 kHz to 100 MHz

MIL-STD-461G, Method CS118 Personnel borne electrostatic discharge - All (ESD)

Radiated emissions, magnetic field MIL-STD-461G, Method RE101 30Hz to 100kHz

Radiated emissions, electric field MIL-STD-461G, Method RE102

10kHz to 18GHz

Radiated susceptibility, magnetic field MIL-STD-461G, Method RS101

30Hz to 100kHz

Radiated susceptibility, electric field MIL-STD-461G, Method RS103

2MHz to 18GHz

