

Rugged 12" tablet

he MilDef DK13 offers a rugged 12" tablet with a powerful Intel® Core $^{\text{TM}}$ i7 processor and resistive touch display. It has been designed for tactical military environments where reliability and performance are key.

The DK13 is ideally suited for mounted and dismounted applications requiring real-time situational awareness and forward-deployed C2 Battle Management capability. Vehicle mounting kits and wired/wireless dismountable communication options are available, which may be tailored to specific program requirements.

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™ i7-7600
- 16 GB RAM
- 12.1" Resistive Single-Touch display
- Removable SSD & battery
- Programmable Function keys
- Docking connector
- Wi-Fi, BT, & GPS (optional)
- Magnesium Case
- Up to 9 hours battery life
- MIL-STD-810H
- Ground Army (optional)
- Water and dust resistant (IP65)



Tachnical Specification							
Technical Specificat	Intel® Core™ i7-7600U Processor						
	12.1" XGA (1024 x 768)						
Display	Brightness: 650 nits						
Touch screen	Single-Touch						
Invisible Mode On/Off	Yes						
Case	Magnesium						
Software							
Operating system	Windows 10						
Memory							
RAM	Up to 32 GB DDR4 2133 MHz						
Storage	2.5" SATAIII SSD (removable)						
Graphics							
GPU - · ·	Intel® UHD Graphics 620						
Battery							
Primary	10.8V / 9125 mAh Li-lon						
Secondary	10.8V / 8700 mAh Li-lon <i>optional</i>						
Sound							
Audio	HD Audio						
Security & Managemen TPM							
Interfaces	TPM2.0 optional						
Ethernet	1x Ethernet 1000Base-T						
Linemei	802.11 a/b/g/n/ac <i>optional</i>						
WiFi/Bluetooth	Bluetooth 5.0 <i>optional</i>						
GNSS	Ublox Neo-M8N GPS/GLONASS optional						
USB	1x USB 3.1 Gen 2 (w. fast charging)						
	1x USB 3.1 Gen 2						
Express card slot	Yes						
SIM card slot	Yes						
Docking port	Yes						
Speaker	Stereo Speakers						
Serial	1x COM*						
Function buttons	 4 function keys (F1-F4) Power button TrackPoint and left mouse button Minus (-) & plus (+) sign Arrow keys Function Backlight 						
	- Esc, Ctrl, Alt, Del, Fn & Enter						
	- Brightness						

Technical Specification (cont.)						
Size & Weight	ion (cont.)					
Dimensions with	310 x 255 x 54 mm					
bumpers (W x D x H)	(12.2 x 10.0 x 2.1 inch)					
Weight	2,8 kg **					
Temperature Range	_,~					
, ,	-20°C to +50°C (-4°F to +122°F)					
	(-30°C option available)					
Operational DC	(,					
·	Battery is charging between -10°C to +55°C (+14°F to +131°F)					
Operational Battery (Standard Battery)	-10°C to +50°C (+14°F to +122°F)					
Storage	-40°C to +71° (-40°F to +160°F)					
Reliability	i i i i i i i i i i i i i i i i i i i					
MTBF	C2 2521-					
(Ground Benign)	63 253h					
MTTR	12.675 minutes					
Power						
Power input	12-32 VDC w. surge protector					
Operating time	9 hours					
Power consumption (typical)	31W (w/o battery / LCD 100%					
AC Adapter	Please see the accessories section					
Standards						
CE / FCC	Yes / Yes					
REACH	Yes					
Environment	MIL-STD-810H IP65					
EMC/EMI	MIL-STD-461G Ground Navy optional MIL-STD-461G Ground Army optional					
Warranty						
Warranty	5 years					
Customization						
	ded in the data sheet? MilDef products					

Need anything not included 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.



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

^{**} Weight incl. RAM, GPS, Wireless, $2^{\rm nd}$ GLAN, Battery and SSD

Windows 10

Accessories & Options AC/DC Adapters AC Adapter 90W (EU) – Indoor Use AC Adapter 90W (US) – Indoor Use AC Adapter 90W Ground Army – Indoor Use (EU) AC Adapter 90W Ground Army – Indoor Use (EU) AC Adapter 90W Ground Army – Indoor Use (US) ACS90 – AC adapter 90W Ground Navy (IP65, MIL-STD-810G, MIL-STD-461F & Wide temp) ACS90 – AC adapter 90W Ground Army (IP65, MIL-STD-810G, MIL-STD-461F & Wide temp) Chargers Multi battery charger Mounting & Transport Desking and mounting solutions Places get in postage with your MilDef calor of fire for
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Mounting & Transport
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Desking and mounting colutions
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
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Carrying Handle Standard option.
Stand unit Can hold unit and Docklight with adjustable view angle.
Operating system



	Environmental Specification	
Ī	Low Air pressure	
	Low air pressure – Rapid Decompression MIL-STD-810H, Method 500.6, Procedure I - Storage/Air Transport	12.192 m / 40.000 ft
	Low air pressure - Operating MIL-STD-810H, Method 500.6, Procedure II - Operation/Air Carriage	4.572 m / 15.000 ft
	IP Class	
	IP	IP65
	Freeze/Thaw	
	Freeze/Thaw – Operating MIL-STD-810H, Method 524.1 Procedure III - Rapid Temperature Change	According to method and procedure
	Humidity	
	Humidity – Storage MIL-STD-810H, 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-810H, Method 506.6 Procedure II	276kPa(40psig) 5-surfaces 40-minutes/surface
	Shock	
	Functional Shock - Operating MIL-STD-810H, Method 516.8 Procedure I - Figure 516.8-10	Table 516.8-IV Terminal-peak sawtooth shock pulse 40g, 11ms
	Salt Fog	6 h
	Salt fog MIL-STD-810H Method 509.7	Salt concentration of 5 % +- 1 % 24 h wet + 24 h dry /cycle Total 2 cycles / 96 hours
	Temperature	., ,
	Low temperature - Operating MIL-STD-810H Method 502.7 Procedure II – Operation Low temperature - Storage	-20 °C / -4 °F (optional -30 °C / -22 °F)
	MIL-STD-810H Method 502.7 Procedure I – Storage High temperature - Operating	-40 °C / -40 °F
	MIL-STD-810H Method 501.7 Procedure II – Operation High temperature - Storage	50 °C / 140 °F
	MIL-STD-810H Method 501.7 Procedure I – Storage Temperature Shock – Non-Operating	71 °C / 160 °F
	MIL-STD 810H Method 503.7 Procedure I–A (Figure 503.7-1) Vibrations	-20°C / 0°F to 60°C / 140°F
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Vibration - Operating

- A. MIL-STD-810H, Method 514.8 Category 20 Ground Vehicles-ground mobile Table 514.8C-VII Composite wheeled vehicle vibration exposure Figure 514.8C-6, 60-minutes/axis
- B. MIL-STD-810H, Method 514.8 *Category 14* Rotary wing aircraft-Helicopter Table 514.8D-IIIa OH-58AC, Figure 514.8D-4, 60-minutes/axis
- C. MIL-STD-810D, Method 514.6 Procedure I, Category 20 Tracked Vehicle Figure 514.6D-8, (M548) 60-minutes/axis

Vibration Storage

MIL-STD-810H, Method 514.8 Category 24 - General minimal integrity 60-minutes/axis



EMC Specification (optional)

MII		

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

 $Conducted \ susceptibility, \ bulk \ cable \ injection, \ impulse \ excitation$ MIL-STD-461G, Method CS115

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

