

MilDef DK13



Rugged 12" tablet

The MilDef DK13 offers a rugged 12" tablet with a powerful Intel® Core™ 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, dismountable 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)

Technical Specification

| | |
|----------------------------------|---|
| CPU | Intel® Core™ i7-7600U Processor |
| Display | 12.1" XGA (1024 x 768) 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 / 5800 mAh Li-Ion |
| Secondary | 10.8V / 8700 mAh Li-Ion <i>optional</i> |
| Sound | |
| Audio | HD Audio |
| Security & Management | |
| TPM | <i>TPM2.0 optional</i> |
| Interfaces | |
| Ethernet | 1x Ethernet 1000Base-T |
| WiFi/Bluetooth | 802.11 a/b/g/n/ac <i>optional</i> Bluetooth 5.0 <i>optional</i> |
| GPS | Ublox Neo-M8N GPS/GLONASS <i>optional</i> |
| 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 | <ul style="list-style-type: none"> - 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 | |
| Dimensions with bumpers (W x D x H) | 310 x 255 x 54 mm (12.2 x 10.0 x 2.1 inch) |
| Weight | 2,8 kg ** |
| Temperature Range | |
| Operational DC | -20°C to +50°C (-4°F to +122°F) (-30°C <i>option</i> available) |
| Operational Battery (Standard Battery) | Battery is charging between -10°C to +55°C (+14°F to +131°F) |
| Storage | -40°C to +71° (-40°F to +160°F) |
| Reliability | |
| MTBF (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 <i>optional</i> MIL-STD-461G Ground Army <i>optional</i> |
| Warranty | |
| Warranty | 5 years |
| Customization | |
| 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, 2nd GLAN, Battery and SSD



Accessories & Options

AC/DC Adapters

| | |
|---|--|
| 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 (IP65, MIL-STD-810G, MIL-STD-461F & Wide temp) | 110/220VAC (90~264 VAC), 50/60 Hz or 400Hz |
| 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 |

Chargers

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|-----------------------|---|
| Multi battery charger | Charger for 2x primary and 1x Secondary batteries |
|-----------------------|---|

Mounting & Transport

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|--------------------------------|---|
| 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 |
| Carrying Handle | Standard option. |
| Stand unit | Can hold unit and Docklight with adjustable view angle. |

Operating system

Windows 10

Environmental Specification

Low Air pressure

| | |
|---|----------------------|
| Low air pressure – Rapid Decompression MIL-STD-810H, Method 500.6, <i>Procedure I - Storage/Air Transport</i> | 12.192 m / 40.000 ft |
| Low air pressure - Operating MIL-STD-810H, Method 500.6, <i>Procedure II - Operation/Air Carriage</i> | 4.572 m / 15.000 ft |

IP Class

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|----|------|
| IP | IP65 |
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Freeze/Thaw

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| Freeze/Thaw – Operating MIL-STD-810H, Method 524.1 <i>Procedure III - Rapid Temperature Change</i> | According to method and procedure |
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Humidity

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| Humidity – Storage MIL-STD-810H, Method 507.6 <i>Procedure II (Aggravated) - Figure 507.6-7</i> | 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 |
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Rain

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| Rain – Operating MIL-STD-810H, Method 506.6 <i>Procedure II</i> | 276kPa(40psig) 5-surfaces 40-minutes/surface |
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Shock

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| Functional Shock - Operating MIL-STD-810H, Method 516.8 <i>Procedure I - Figure 516.8-10</i> | Table 516.8-IV Terminal-peak sawtooth shock pulse 40g, 11ms |
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Salt Fog

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|---------------------------------------|---|
| 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

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|---|---|
| Low temperature - Operating MIL-STD-810H Method 502.7 <i>Procedure II – Operation</i> | -20 °C / -4 °F (optional -30 °C / -22 °F) |
| Low temperature - Storage MIL-STD-810H Method 502.7 <i>Procedure I – Storage</i> | -40 °C / -40 °F |
| High temperature - Operating MIL-STD-810H Method 501.7 <i>Procedure II – Operation</i> | 50 °C / 140 °F |
| High temperature - Storage MIL-STD-810H Method 501.7 <i>Procedure I – Storage</i> | 71 °C / 160 °F |
| Temperature Shock – Non-Operating MIL-STD 810H Method 503.7 <i>Procedure I–A (Figure 503.7-1)</i> | -20°C / 0°F to 60°C / 140°F |

Vibrations

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| Vibration - Operating | |
| A. MIL-STD-810H, Method 514.8 <i>Category 20</i> - 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 <i>Category 14</i> - Rotary wing aircraft-Helicopter Table 514.8D-IIIa OH-58AC, Figure 514.8D-4, 60-minutes/axis | |
| C. MIL-STD-810D, Method 514.6 <i>Procedure I</i> , <i>Category 20</i> - Tracked Vehicle Figure 514.6D-8, (M548) 60-minutes/axis | |
| Vibration Storage MIL-STD-810H, Method 514.8 <i>Category 24 - General minimal integrity</i> 60-minutes/axis | |



EMC Specification (optional)

MIL-STD-461G

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|----------------------------|---|
| MIL-STD-461G, Method CE101 | Conducted emissions, power leads 30Hz to 10kHz |
| 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 | Conducted susceptibility, 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 to 18GHz |