

# Keyboard KBD1106



## Dual source Keyboard

The KBD1100 series is a military-rugged milled aluminum keyboard, designed for tactical military environments where reliability and performance are key. It comes with two USB interfaces to support up to two computer sources and buttons on the front to switch between source 1 and source 2, optimizing SWaP and mission management for the operator.

The keyboard is designed for vehicle use and is equipped with 6 mounting holes for mounting the keyboard to a surface and a sealed built-in 38 mm trackball pointing device. The trackball comes with left and right click buttons made of stainless steel.

### 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 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.

### Key features

- 83 key US backlit keyboard
- Dual USB sources
- Integrated trackball
- MIL-STD-810G & MIL-STD-461F
- IP65

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## Connector Interfaces

X1 (left side) • 2x USB2.0

## Other Interfaces

2x Right/Left click button (front)

2x Input select button (front)

1x Trackball (front)

3x Keyboard indicator (front)

## Technical Specification

<b>General functionality</b>	USB HID 83 key keyboard with trackball mouse
<b>Keyboard layout</b>	US keyboard layout
<b>Source switching</b>	Switching between two sources
<b>Power consumption</b>	2.5 W
<b>Power input</b>	5 VDC
<b>Chassis material</b>	Aluminum
<b>Coating and color</b>	Dupont AE0305-1101320 (RAL 1013)
<b>Dimensions</b>	380 x 53 x 146 mm (15 x 2.1 x 5.8 in) (WxHxD)
<b>Earth point</b>	M6 12 mm
<b>Mounting</b>	6x M4, depth 8 mm
<b>Surface treatment chassis</b>	Chromit-Al
<b>Weight</b>	2 kg (4.5 lbs)
<b>MTBF</b>	> 45,000 h

## Environmental Specification

<b>Functional shock - Operating</b>	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40 g 11 ms
<b>High temperature - Operating</b>	MIL-STD-810G, Method 501.5, Procedure II - Operation 55 °C (131 °F)
<b>High temperature - Storage</b>	MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F)
<b>Humidity</b>	MIL-STD-810G, Method 507.5, Procedure II - Aggravated 95 ± 4 % RH Ten 24 h cycles
<b>IP Class (Solid Particle Protection)</b>	IP Class 6X
<b>IP Class (Water)</b>	IP Class X5

## Low air pressure - Rapid decompression

MIL-STD-810G, Method 500.5, Procedure III - Rapid decompression 75.2 kPa, corresponding to 2,438 m (8,000 ft) 17 kPa, corresponding to 12,192 m (40,000 ft)

## Low air pressure - Operating

MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4,572 m (15,000 ft)

## Low temperature - Operating

MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F)

## Low temperature - Storage

MIL-STD-810G, method 502.5, Procedure I - Storage -40 °C (-40 °F)

## Noise level

Maximum noise level of 40 dB SPL A-weighting at 1 m (3.3 ft) distance

## Salt fog

MIL-STD-810G Method: 509.5 5 % ± 1 % (by weight) Two cycles, 24 h wet + 24 h dry / cycle

## Temperature shock - Operating

MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °F) -30 °C (-22 °F)

## EMC Specification

### EMI radiated RE102

MIL-STD-461F, Method RE102, Radiated emissions, electric field Navy Mobile & Army 2 MHz - 18 GHz

### ESD

EN61000-4-2:2009 Level 3 EN55024:1998 Performance criteria B + A1:2001 + A2:2003