

# Keyboard KBD1103



## Dual source Keyboard

The KBD1103 is a military-rugged keyboard, housed in milled aluminum, designed for tactical military environments where reliability and performance are essential.

It is supplied with two USB interfaces to support up to two computer sources, utilizing 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, being equipped with 6 mounting holes for securing the keyboard to a surface and a sealed, built-in 38 mm trackball pointing device. The trackball comes with left and right stainless steel click buttons.

### Military-relevant rugged design

MilDef products are designed to operate in extreme environmental conditions and challenging electromagnetic operational scenarios. Operationally proven, MilDef products are actively employed in military operations in over 60 countries.

### 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 UK 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)  
1x Keyboard with backlight (front)

## Technical Specification

General functionality	USB HID 83 key keyboard with trackball mouse
Source switching	Switching between two sources
Power consumption	2.5 W
Power input	5 VDC
Chassis material	Aluminum
Coating and color	Dupont AE0305-1101320 (RAL 1013)
Dimensions	380 x 53 x 146 mm (15 x 2.1 x 5.8 in) (WxHxD)
Earth point	M6 12 mm
Mounting	6x M4, depth 8 mm
Surface treatment chassis	Chromit-Al
Weight	2 kg (4.5 lbs)
MTBF	Greater than 25,000 h
CE	Compliant

## Environmental Specification

Functional shock - Operating	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40 g 11 ms
High temperature - Operating	MIL-STD-810G, Method 501.5, Procedure II - Operation 55 °C (131 °F)
High temperature - Storage	MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F)
Humidity	MIL-STD-810G, Method 507.5, Procedure II - Aggravated 95 ± 4 % RH Ten 24 h cycles
IP Class (Solid Particle Protection)	IP Class 6X
IP Class (Water)	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  
Navy Mobile & Army  
2 MHz - 18 GHz