

# MIC-K8904

89 Keys Silicone Rugged Keyboard with Sealed Optical Trackball

## Features

- Military-Grade Rugged and Sealed Keyboard with IP65 Protection
- Integrated 800DPI Sealed Optical Trackball
- Supports 12 FN Keys (F1~F12) and Compact 89-Key Layout
- Silicone Keys with 1.5mm Travel for Precise Tactile Feedback
- Antimicrobial and Wear-Resistant Key Surface
- FN+CLEAN Key Function for Easy Maintenance
- Compatible with Multiple Operating Systems and Customizable Interfaces
- Compliance with MIL-STD-810F, MIL-STD-461G (Optional)
- Designed for Embedded Applications in Military and Industrial Environments

## Appearance





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## Revision Table

Date	Revision	Content	By
2025/7/12	0.1	First Draft	Devin

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## Specification

Number of Keys	89 Keys + 3 Mouse Buttons
Key Technology	Silicone with Carbon Contact Switches
Key Travel	1.50 ± 0.10 mm
Key Lifespan	> 5 Million Cycles
Key Force	1.5N ± 0.2N
Dimensions	283.0 mm x 177.0 mm
Operating Voltage	DC +5V ± 5%
Operating Current	≈ 50mA
EMC Standards	EN 55032:2015, EN 55035:2017
Interface	USB (Others Based on Customization)
OS Compatibility	Windows, Linux, Unix, Mac OSX, VxWorks, Android (uCOS Pending)

## Environment Compliance

Operating Temp.	-20°C to +60°C
Storage Temp.	-30°C to +70°C
Relative Humidity	100%
Shock & Vibration	MIL-STD-810G
Protection Rating	IP65
Compliance	MIL-STD-810F, MIL-STD-461G (Optional)

Environmental performance may vary according to the integration method or final integration scenario.

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## Rev. 0.1



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## Deliverables

1	89 Keys Silicone Rugged Keyboard with Sealed Optical Trackball
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## Ordering Information

Model Name	Description	Unit
MIC-K8904	89 Keys Silicone Rugged Keyboard with Sealed Optical Trackball	1

### Disclaimer

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