

Piezo Solid-State Button Development kit

BOS1921-KIT-C03

08/03/2026

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DESCRIPTION

Boréas Technologies BOS1921-KIT-C03 Piezo Development Kit offers a complete platform for testing advanced interfaces, with built-in touch sensing, force sensing, and haptic feedback. This kit answers critical questions and validates designs before manufacturing. The BOS1921-KIT-C03 kit tests various integrations using the same bender actuator to demonstrate feasibility by securely mounting the button on any prototype. This kit uses the Haptic Studio software to instantly switch between sharp clicks, smooth slides, and buzzing notifications to evaluate and refine effects that appeal to users.



The BOS1921-KIT-C03 kit is electrically pre-designed with the BOS1921 driver and comes with fully functional software algorithms for both captouch and force sensing. This kit offers a premium tactile experience with bender-type piezo technology and is mountable on a prototype.

This kit runs on the BOS1921 CapDrive® driver, which includes software algorithms for capacitive touch and force sensing. The waveform design software allows a sharp click, a smooth slide, and a subtle buzz. Configurable force thresholds can trigger distinct actions and haptic responses on a single surface, enabling multi-level button interactions without additional hardware. Typical applications include AI glasses, smartphones and mobile devices, laptops, and consumer electronics with a solid-state button.

FEATURES

- Freedom to explore form factors with a premium tactile experience with bender-type Piezo technology, mountable in a prototype
- Control over the tactile experience:
 - Through haptic studio, adjust frequency, amplitude, and waveform shape until haptic feedback is created that matches your brand's interaction philosophy
 - Customizable haptic profiles ranging from sharp “clicks” to “buzzing” sensations
- Proven performance with BOS1921-kit:
 - Proven energy efficiency helps to demonstrate power budget stakeholders that high-definition haptics won't drain battery life
 - Illustrates waveform synthesis, customization, and contextual haptics with advanced slider features through haptic studio software
 - Showcases full CapDrive™ Driver capabilities
 - Operable in standalone mode, directly powered from a supply or battery, for versatile prototype integration and user demonstration
- Answers to integration questions:
 - See how capacitive touch, force sensing, and haptic generation work together in a real package to eliminate false triggers and capture true user intent
 - Multi-level button capability that uses force thresholds to seamlessly design buttons that perform different functions depending on how hard buttons are pressed
 - Elegant rectangular button design with professional-grade materials
 - Compact piezo module for ease of assembly

APPLICATIONS

- AI glasses
- Smartphones and mobile devices
- Laptops
- Consumer electronics with a solid-state button

KIT CONTENTS

- 1 x slider button assembly
- 1 x controller board
- 1 x FPC-0541
- 1 x USB-C® cable



MOUSER PART NUMBER

- [View Part](#)
- To learn more, <https://www.mouser.com/en/new/boreas-technologies/boreas-bos1921-kit-c03-dev-kit/>