

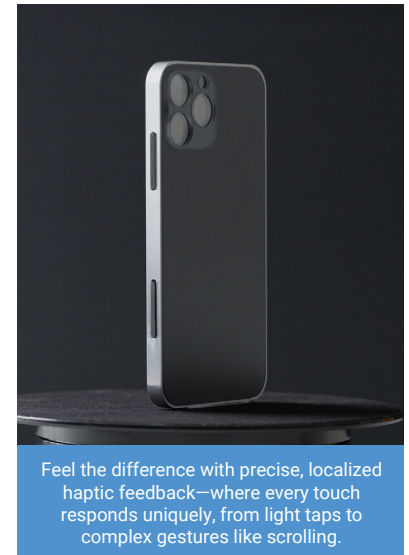
Solid-State Piezo Buttons

FEEL EVERY TAP WITH BORÉAS SOLID-STATE BUTTONS

Boréas Solid-State Buttons (SSB) revolutionize touch interaction with digital devices. Combining piezo actuators, force sensing, and our CapDrive™ architecture, they provide HD localized haptic feedback with crisp, precise vibrations. SSB enhances the tactile experience through advanced gesture recognition and intuitive interactions, enabling virtual buttons that feel real without altering the sleek design of mobile devices.

BREAK FREE FROM BASIC VIBRATION

The launch of smartphones with advanced haptics, like the iPhone 16/16 Pro, has set a new standard for touch interaction, making traditional vibrations feel outdated. Boréas Solid-State Buttons (SSB) deliver an immersive tactile experience that goes beyond basic feedback. This technology empowers manufacturers to enhance every interaction, from distinct clicks while typing to dynamic sensations in gaming, resulting in more engaging and satisfying touch experiences.



HD LOCALIZED FEEDBACK

Unmatched clarity and responsiveness for tactile excellence



SEEMLESS INTEGRATION

Fits standard switch sizes for easy adoption

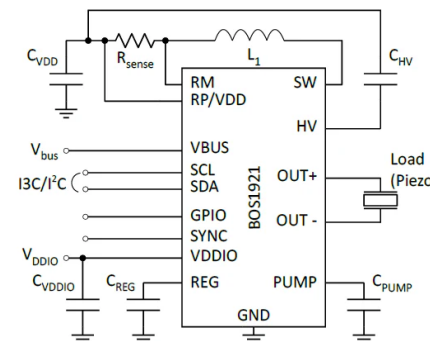


ENERGY EFFICIENCY

Uses up to 10 times less energy, extending battery life

POWERED BY OUR CAPDRIVE® TECHNOLOGY: BOS1921

- ↳ High-Voltage Low Power Piezo Driver
 - Drives 100 nF at 190 Vpk-pk and 300 Hz while consuming only 350 mW
 - Drives Capacitive Load up to 820 nF
 - Energy Recovery
 - Differential Output
 - Miniature Solution Footprint, WLCSP 2.1x1.7 mm
 - Small Solution Footprint, QFN 4x4 mm
 - Low BOM cost
- ↳ Advanced Piezo Sensing Capabilities
 - 7 mV Sensing Resolution
 - Interrupt Generation
 - Automatic Triggering of Haptic Feedback
- ↳ Integrated Digital Front End with I3C/I2C
 - 1024 sample Internal FIFO Interface
 - 1.8V to 5.0V Digital I/O Supply
 - Waveform Synthesizer (WFS)
 - Supports Continuous Waveforms Playback
 - State Retention in SLEEP Mode
- ↳ Fast Start Up Time of Less Than 300 μs
- ↳ Multi-Actuator Synchronization
- ↳ Wide Supply Voltage Range of 3 V to 5.5V



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For further information on technologies, our products, the application of our products, terms and conditions, or prices please contact the Boréas Technologies office by visiting our website at www.boras.ca.