

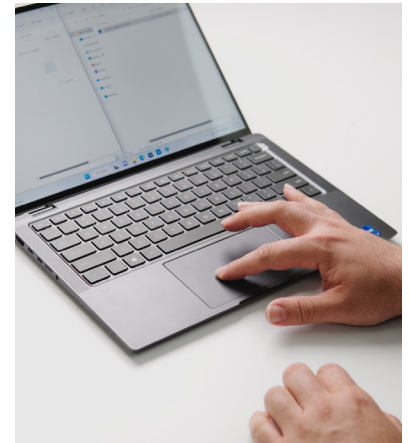
Piezo Haptic Trackpads

PRECISION TOUCH MEETS SCALABLE DESIGN

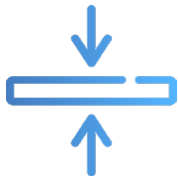
The Boreas Piezo Haptic Trackpad is revolutionizing touch technology with our patented CapDrive™ Technology and piezo disks that provide precise force sensing and haptic feedback. Its scalable design accommodates various sizes and styles, from window-based to seamless. With stunning HD haptic feedback and built-in force sensing, this trackpad makes every interaction feel immersive, allowing you to truly connect with the digital world.

SLIMMING DOWN LAPTOPS FOR A SLEEKER, SMARTER EXPERIENCE

PC OEMs are pushing for thinner laptops, which poses a challenge for the Boreas Piezo Haptic Trackpad, as it shares space with the battery. Reducing its thickness is crucial to maintain overall laptop size without sacrificing battery capacity, while designers are increasingly requesting larger trackpads for better user experiences in flagship models. Recognized with a CES 2022 nomination, the Boreas trackpad embodies innovation, serving as a gateway to a more intuitive and immersive digital world that enhances productivity, creativity, and entertainment.



Meet the world's thinnest trackpad, featuring adjustable force sensing and haptic feedback, perfectly tailored to your needs.



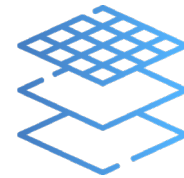
ULTRA-THIN

Can be thinner than 3 mm for the entire module



HD HAPTICS

Enables better customization and user experience

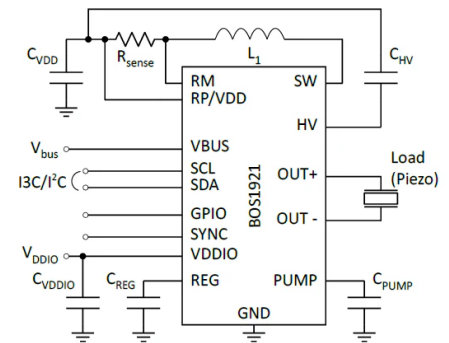


SCALABLE ARCHITECTURE

Simplifies assembly, reducing production costs

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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