

SOLUTIONS FOR:



Engineers

Stay focused on your own product innovation and rely on our sensor expertise.



CTOs & Project Managers

Speed your time to market for your next-gen products.



Purchasers

Discover a trusted partner with flexible business models to meet your needs.



Your Customers

Make customers happy with innovative features that can be easily integrated into your product.

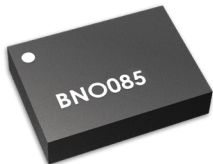
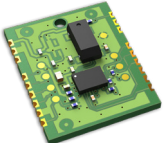

LOW LATENCY MOTION SENSORS FOR AUGMENTED & VIRTUAL REALITY

Augmented and virtual reality (AR/VR) applications are all about delivering lifelike experiences. To differentiate, manufacturers need to provide a true-to-life experience that's immersive and enjoyable. When your users move in the real world, the virtual world they're experiencing needs to move with them. But when an AR/VR headset's sensors can't keep up, users struggle with a visual "lag" that causes disorientation and motion sickness.

Our low-latency IMU delivers fused output at a high sample rate (1kHz), ensuring user experiences are accurate and immersive. Using a special host-side library, our IMU can combine linear positioning data from an external camera and orientation information from sensors inside the headset to create a 6DoF controller experience. With accurate motion tracking and no lag, your customers will forget they're even in a game.

No matter your application, let us handle the sensors and sensor fusion for you, freeing you to focus on differentiating your product. Other solutions might use expensive IR cameras, or unreliable magnetometers. Our multi-axis IMUs and host-side library help you create an immersive experience while lowering component cost and improving performance.

FLEXIBLE SOFTWARE, CHIP LEVEL & MODULE LEVEL PRODUCTS

BNO085	FSM300 MODULE	MOTIONENGINE SENSOR FUSION SOFTWARE
<p>A convenient System-in-Package (SiP) with a 9-axis sensor and sensor fusion—a pin-for-pin replacement of BNO055</p> 	<p>A 9-axis IMU / AHRS module with embedded sensor fusion that enables rapid development of robotics, AR/VR, and IoT devices</p> 	<p>Versatile and powerful sensor fusion software, delivered into more than 100 million consumer electronics devices</p> 

GET STARTED TODAY

Our expertise built from over 15 years of developing sensors and sensor fusion software hasn't gone unnoticed. We've been trusted by major brands such as LG, Samsung, TCL, Sharp, and more, with over 100 million products shipped. We're ready to work with your technical team to support integration of our technology into your 3D audio application. To learn more, contact us online at hillcrestlabs.com/contact.

