



## BNO080 Development Kit with STM32 Nucleo-F411RE



Co-developed by Hillcrest Labs and Bosch Sensortec, the BNO080 is a single chip solution that integrates an accelerometer, a gyroscope, a magnetometer, and a low-power 32-bit ARM Cortex M0+ MCU, running Hillcrest’s high-performance sensor hub software stack.

The BNO080 Development Kit is a demonstration and evaluation platform that allows quick and easy development and prototyping, incorporating the BNO080’s superior motion processing and power management capabilities

## WHAT’S INCLUDED

- ✓ **BNO080 Development Board** – Designed as a ‘shield’, the BNO080 dev. board simply plugs into the STM32 Nucleo-F411RE prototyping platform

The board includes the *BNO080* 9-axis System-in-Package, the *Bosch BME280* pressure/temperature/humidity, and the *Capella CM36686* proximity/ALS sensors

The board provides test points to measure BNO080’s current consumption

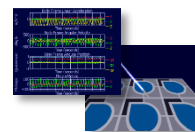
Dimensions: 2.425” x 2.85”



- ✓ **ST Microelectronics STM32 Nucleo-F411RE Development Platform** – Pre-installed with the Communication Software Driver Package that fully implements the communication protocol used by the BNO080



- ✓ **Evaluation Toolset with Graphical Interface** - Freespace® MotionStudio2.0 is a PC application that provides a graphical interface for evaluating Freespace® functionality, configuring Freespace® devices, plotting and logging motion data, upgrading firmware, and developing products with Freespace® motion technology



- ✓ **Technical Collateral and Documentation** - Includes all necessary source code, guides, reference manuals, datasheets and schematics for a quick and straight forward installation

## ABOUT HILLCREST LABS

Hillcrest Labs is the leading global supplier of software , hardware and intellectual property for sensor-enabled TV, AR, VR, and Robotics products and various other CE and IoT applications. Our Freespace® technology transforms human and machine movement into high quality, application-ready information. With more than a decade of development and many unique patented features, products come to life with Freespace® sensor processing technology. Find out more at [www.hillcrestlabs.com](http://www.hillcrestlabs.com), or contact us at [sales@hillcrestlabs.com](mailto:sales@hillcrestlabs.com).