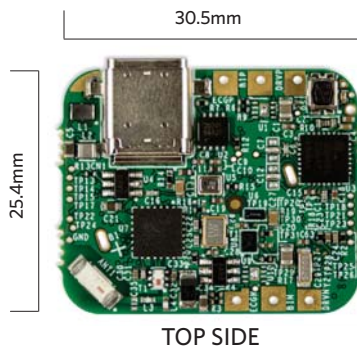


# hSENSOR PLATFORM

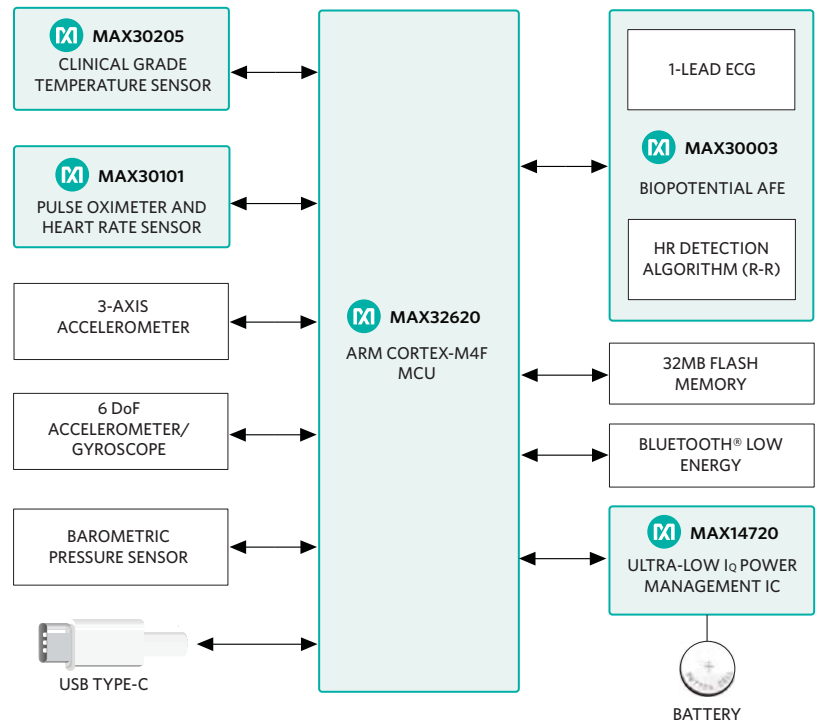
Quick and Easy Evaluation of Custom Health Sensor Applications



Designing a custom wearable product can be complex. The **MAXREFDES100** Health Sensor (hSensor) Platform eliminates the extra time it typically takes to develop a prototype, so you can quickly evaluate and validate the right solution for your health sensor application. The platform supports the measurement of motion, precision skin temperature, bio-potential measurements (including ECG, EMG, and EEG) and reflective PPG (including pulse oximetry and heart-rate). MAXREFDES100 includes an hSensor board, complete firmware with drivers, a debugger board, and a graphical user interface (GUI). It is ideal for development of high-end health, wellness, and fitness applications, such as chest straps, ECG patches, wrist-worn devices, thermometers, disposable temperature patches, blood oxygen measurement, smart weigh scales, and bio authentication. The entire platform is optimized to maximize battery life in a tiny 7.75cm<sup>2</sup> footprint, ideal for the latest wearable applications.

## KEY PRODUCTS

Part Number	Description	Order
<b>MAX30003</b>	Ultra-low power, single-channel, integrated biopotential analog front-end (AFE)	
<b>MAX30101</b>	High-sensitivity, pulse oximeter and heart-rate sensor	
<b>MAX30205</b>	Industry's only clinical grade temperature sensor	
<b>MAX32620</b>	Ultra-low power ARM® Cortex®-M4F microcontroller optimized for wearables	
<b>MAX14720</b>	Industry's lowest quiescent current PMIC	
<b>MAXREFDES100</b>	hSensor Platform for medical, fitness, and wearable applications	



## KEY ADVANTAGES

- Complete, flexible solution—Supports development of a wide variety of health and fitness sensor applications
- Saves design time—Fully working hardware and firmware allows you to quickly validate your concept
- Fast time to market—Build on top of existing hardware and firmware to quickly validate your hardware design
- Easy to use—PC GUI and Android application available; Powered by USB connection or coin cell battery; Data stored on an external flash drive or streamed via Bluetooth for low energy

## RELATED RESOURCES

- [MAXREFDES100 on ARM® mbed™](#)
- [Quick Start Guide and Design Files](#)
- [hSensor Platform Enables Quick and Easy Design for Wearable Health and Fitness Applications](#)