



**THINK
ON.**

RSL10 Sensor Development Kit

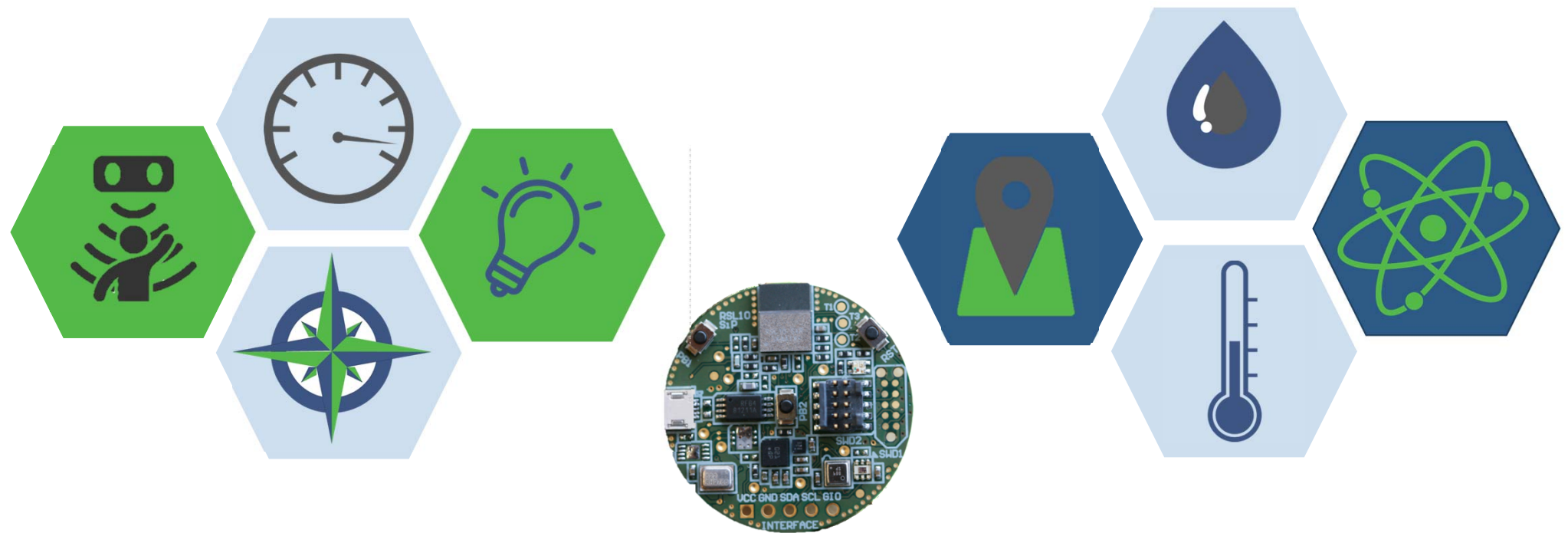
ON Semiconductor[®]



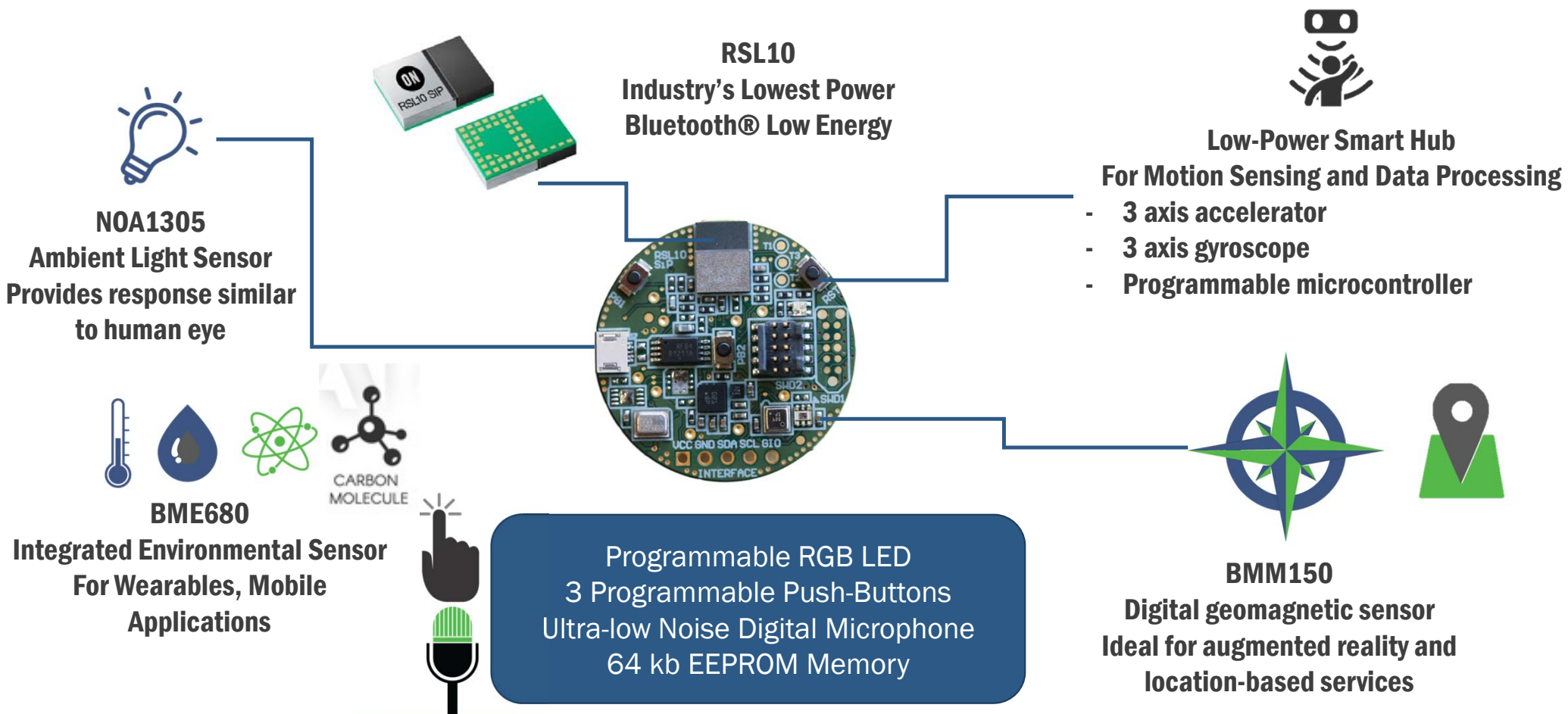
Public Information

RSL10 Sensor Development Kit

Cutting-Edge Sensor Technology Industry's Lowest Power Bluetooth® Low Energy



Overview



Summary

- The **RSL10 Sensor Development Kit** is a multi-sensor development kit, combining industry's lowest power BLE with cutting-edge sensor technology.
 - Based on the RSL10 SIP
 - Industry's lowest power



What are We Providing?

Hardware

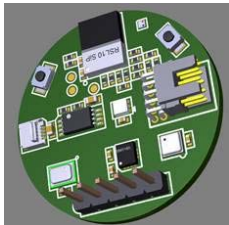
- Multi-sensor development kit based on the RSL10 SIP (industry's lowest power Bluetooth 5)
 - 3 programmable buttons
 - Programmable RGB LED
 - Microphone (functionality not supported at time of launch)
 - Multiple sensors (see overview on Slide 3)

Design Tools

- Ready to use custom service protocol
- Use-cases (provided as part of the B-IDK, IDK)
- Can be customized using the B-IDK CMSIS Pack
- Mobile app providing support for cloud connectivity (AWS, Azure, Watson)
 - Configurable
- Documentation
 - User manual

Other

- Supports multiple public clouds (provide examples)



Key Features and benefits

- Based on RSL10 SIP
 - Industry's lowest power Bluetooth 5
 - Certification : <http://www.onsemi.com/pub/Collateral/TND6220-D.PDF>
 - 2 Mbps max data rate
 - Features integrated antenna, removing need for additional RF considerations (wiring, routing, etc.)
- Pre-programmed with custom service protocol
 - iOS, Android
- Customize firmware using the B-IDK CMSIS pack
- Compact Hardware
 - Features sensors, programmable push-buttons, built-in microphone and speakers to support audio features on one miniature board
- Complete range of cutting-edge environmental sensors
 - Ambient lighting, temperature, humidity, gas pressure, geomagnetic sensor)
- Supports cloud connectivity platforms



Target Applications

Wearables/ Fitness Tracking
Gaming/PC
Building/Home Automation
Consumer Electronics



Key Terminology

- Bluetooth® 5
- IoT
- Bluetooth Low Energy
- Smart Sensor
- Cloud Connectivity

