

RE Partner Solution

RE01 Sensor Board PoC



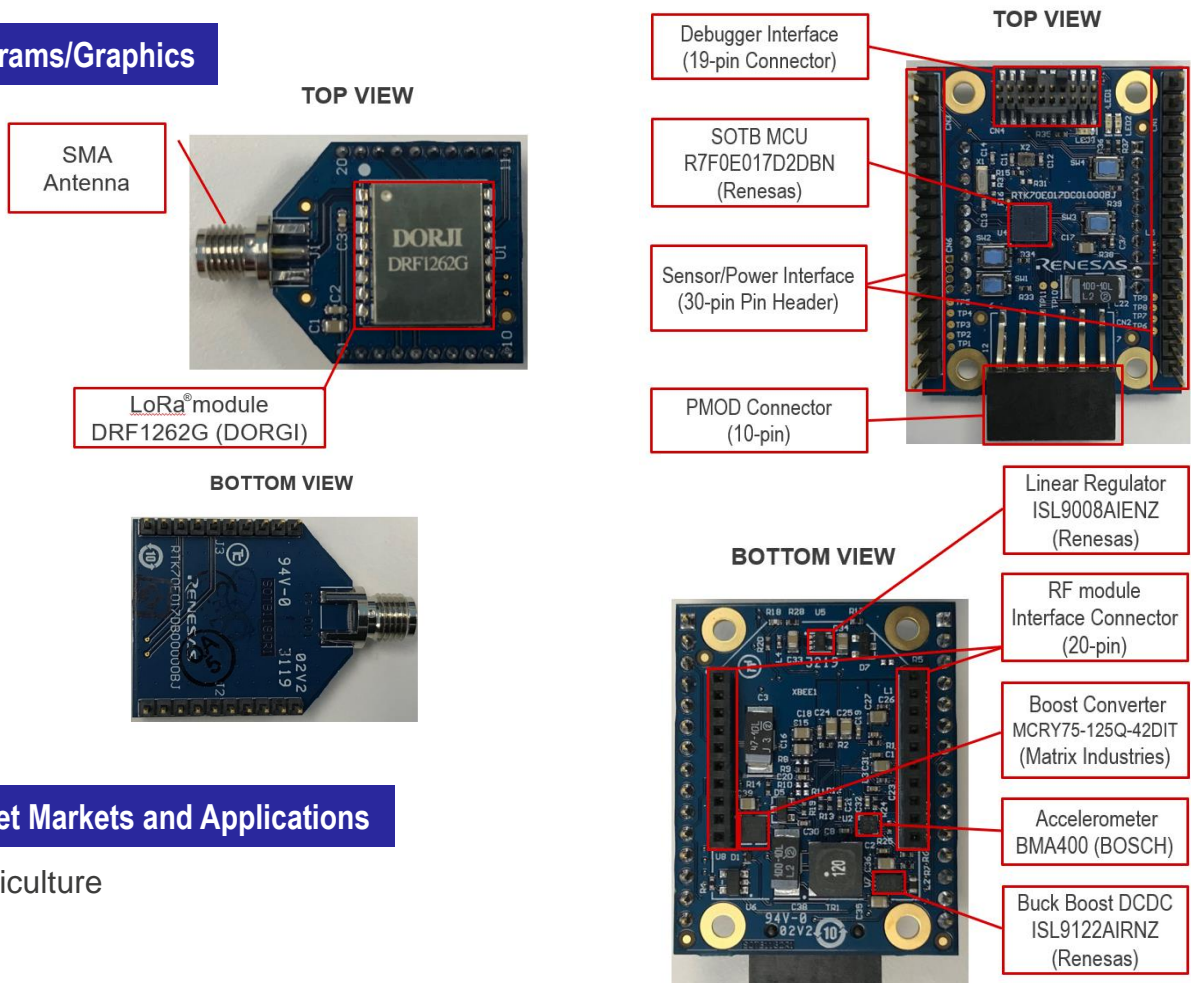
Solution Summary

The RE01 Sensor Board Proof of Concept demonstrates the capabilities of the [SOTB MCU](#) with its built-in sensor and interface connector for the corresponding LoRa® communication module, as well as exposing other interfaces including PMOD and a general-purpose set of IO pins.

Features/Benefits

- Built-in accelerometer for rapid development and prototyping
- RF connector for accompanying LoRa® module daughter board
- Standard 19-pin debug interface connector
- 30 pins broken out for power, sensor communication, and other IO purposes
- PMOD connector for use with wide variety of available PMOD modules

Diagrams/Graphics

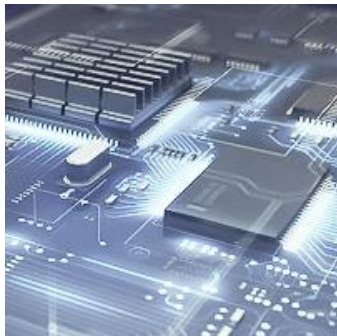


Target Markets and Applications

- Agriculture
- IoT

Halleck-Willard, Inc

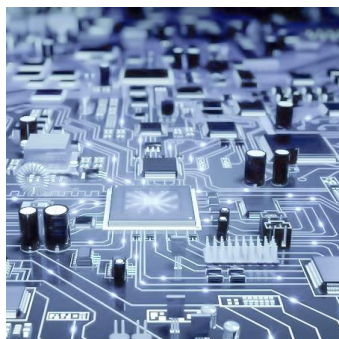
- Operating for 35 years and counting
- 120+ patents secured by employees over time
- Extensive experience in medical product development
- 3-time consecutive recipient of Renesas IDH (Independent Design House) of the Year award
- Engineering services provided to clients across 6 continents



**Embedded Systems
Hardware Design**



**Full-stack IoT
Software Development**



**Electromechanical
System Design**



RF Communications