



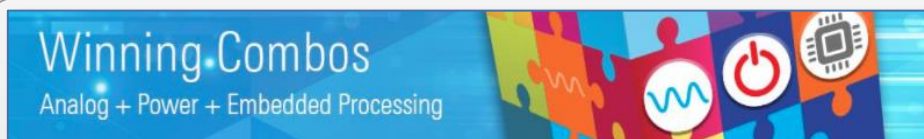
RENESAS RE MCU BASED “WINNING COMBOS”

RENESAS ELECTRONICS AMERICA



RE MCU BASED “WINNING COMBOS” & “LAB ON THE CLOUD”

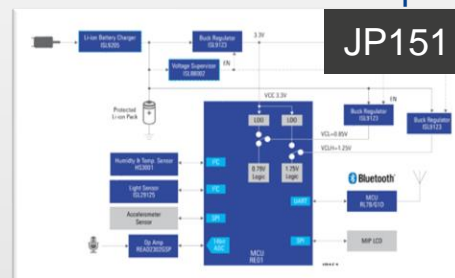
- RE MCU based Winning Combos in conjunction with Renesas sensors and low power products
- Experience on-line evaluation tool “Lab on the Cloud” for the RE MCU



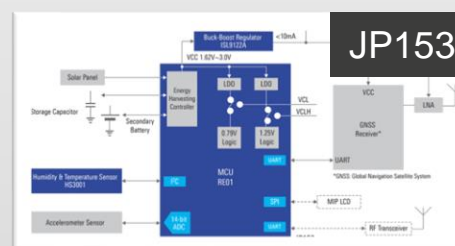
WC No. Application

JP151	Wearable Devices with the RE01 32-Bit MCU
JP152	Structural Health Monitor
JP153	Low Power Global Navigation Satellite System (GNSS) Tracking Solution
JP087	Smart Agriculture Sensing with Energy Harvesting
EU077	Indoor Sensor for Automatic Home or Building HVAC System
EU078	Outdoor Sensor for Automatic Home or Building HVAC System

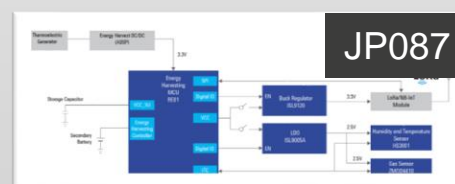
Examples



JP151



JP153



JP087



Experience the Ultra-Low Power operation of EK-RE01 online!



[Lab on the cloud for RE MCU Introduction](#)

[Go to the Lab on the Cloud for RE](#)



WEARABLE DEVICE

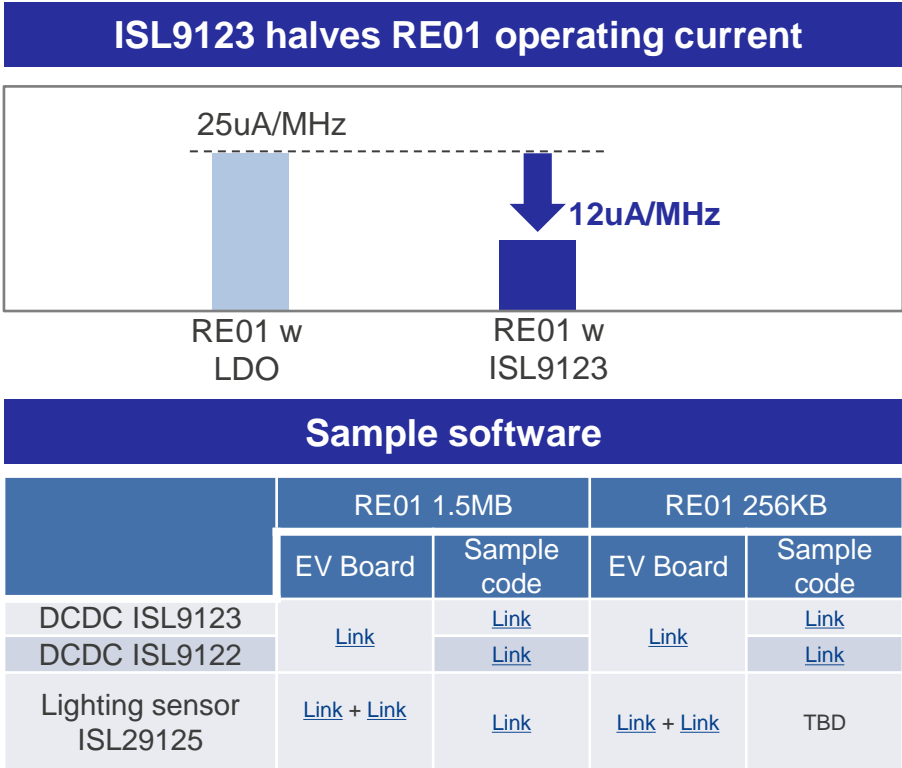
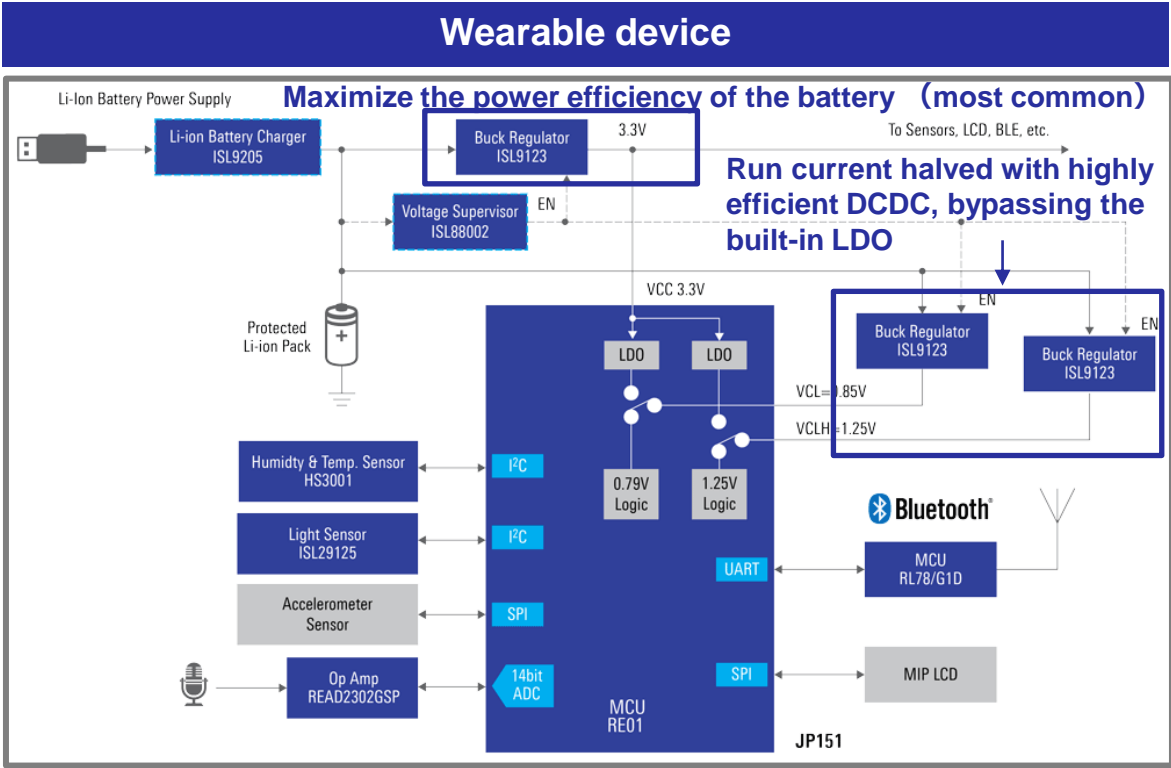
HIGH PERFORMANCE AND GREATLY EXTENDED BATTERY LIFE

WINNING COMBOS

JP151

Reduced consumption of wearable devices with small battery size and long battery life.

- By Using ISL9123, the operating current of RE can be halved and the current of the system is greatly reduced.
- Obtained DIN with power supply in the Watch application. Please expand sales as a set for wearable devices.



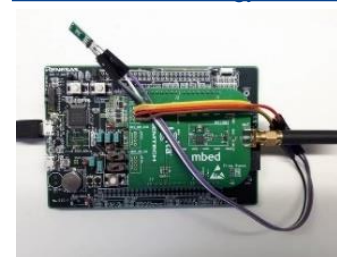
LORAWAN® IOT SENSOR BATTERY REPLACEMENT WILL BE UNNECESSARY

IoT sensor that operates semi-permanently without battery replacement

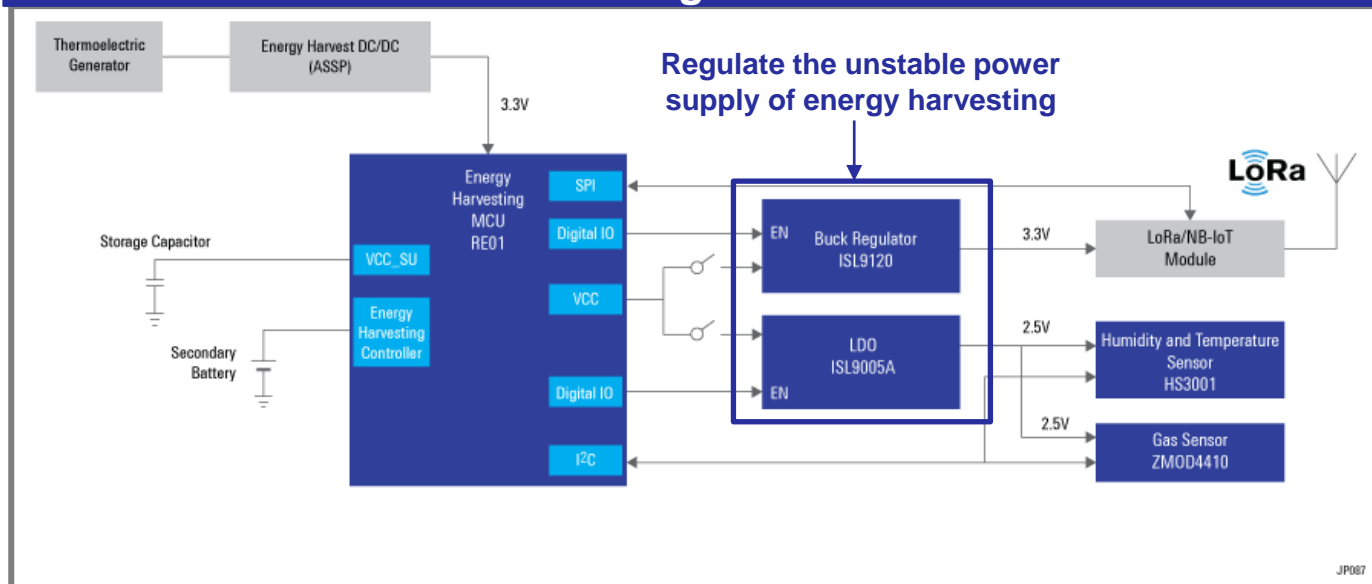
- Inquiries about buildings, homes, and meters increased in Europe.
- Reference design is released. It can be evaluated immediately.

SW HW reference design

<https://www.renesas.com/us/en/document/scd/re01-256kb-group-battery-maintenance-free-lorawan-sensor-energy-harvesting-application-note-sample?language=en>

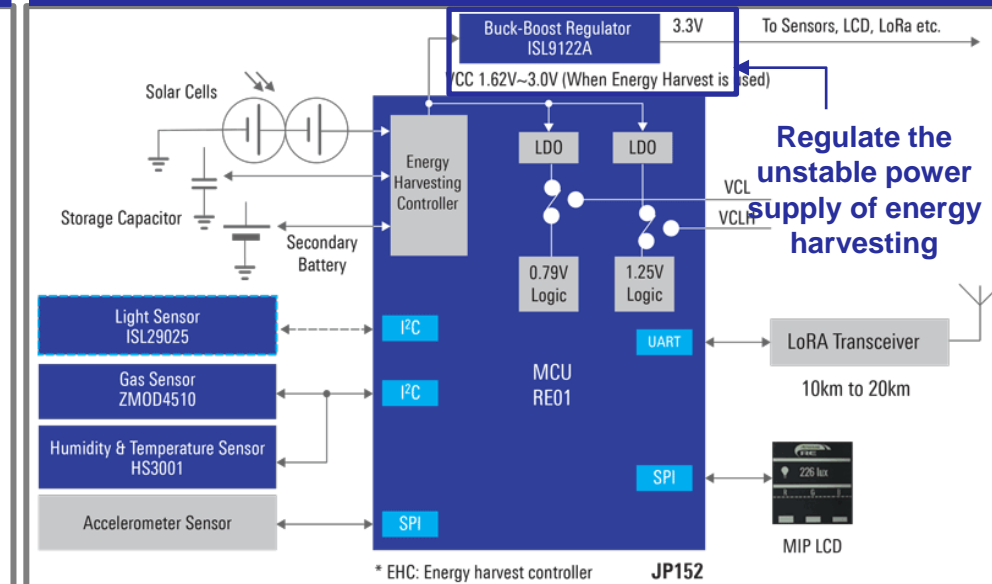


Smart agriculture



JP087

Structure monitor



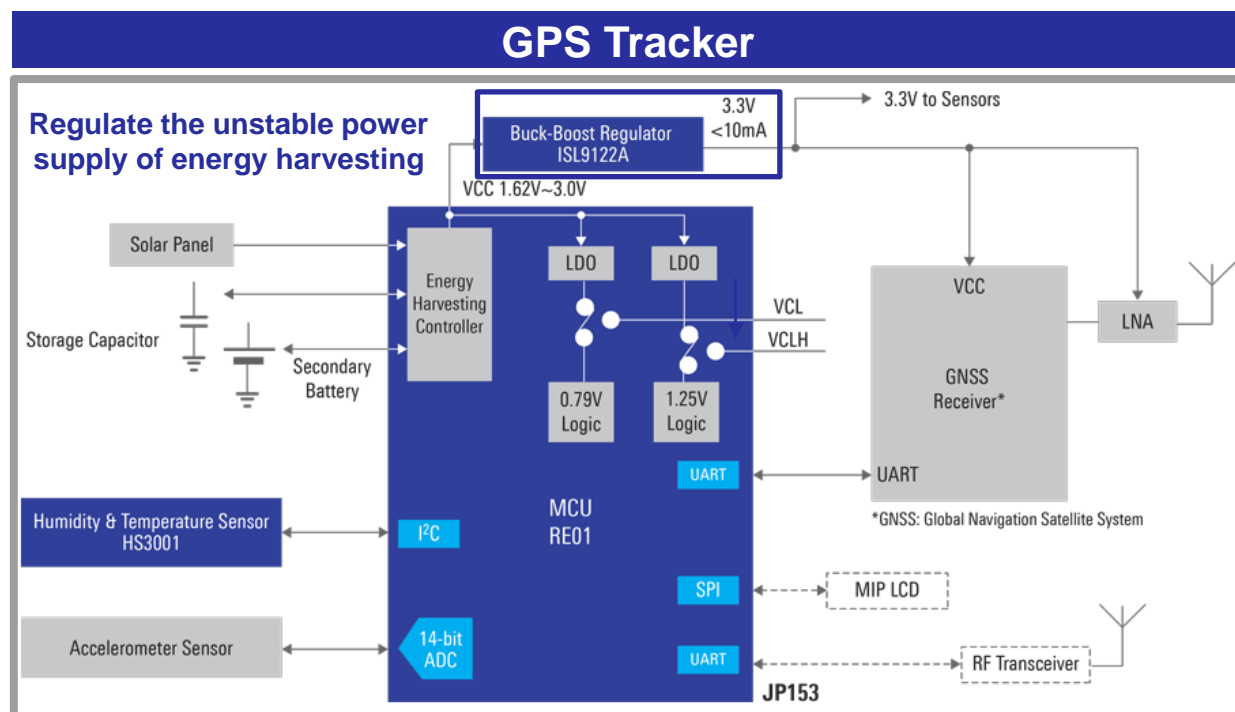
* EHC: Energy harvest controller

JP152

GPS TRACKER BATTERY REPLACEMENT WILL BE UNNECESSARY

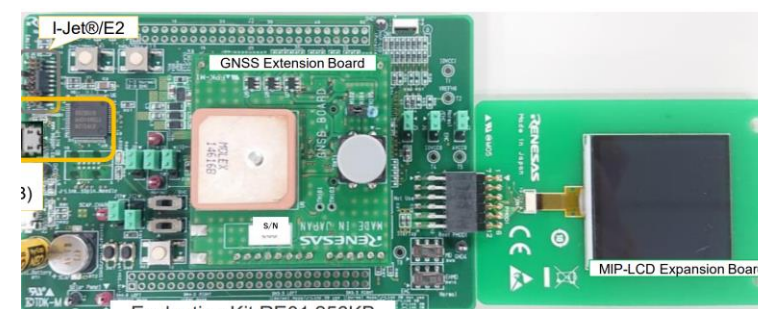
GPS tracker that works semi-permanently without battery replacement

- DIN in combination with the power supply.
- Reference design is released. It can be evaluated immediately.



SW HW reference design

<https://www.renesas.com/us/ja/document/apn/re01-1500kb-256kb-group-battery-maintenance-free-gps-receiver-energy-harvesting-application-note?language=en&r=1321781>

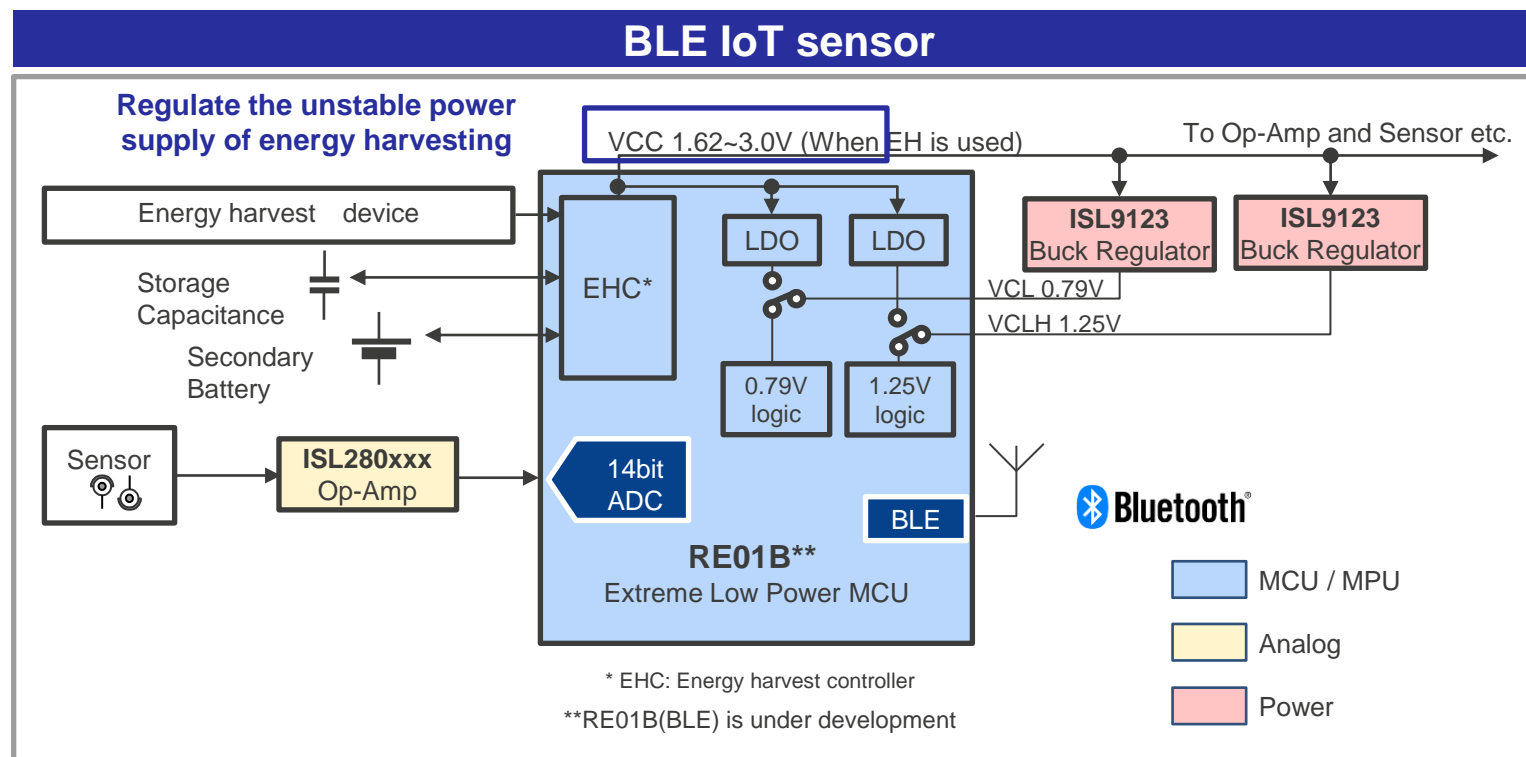


BLE RE01B(SOTB) IOT SENSOR BATTERY REPLACEMENT WILL BE UNNECESSARY

IoT sensor that operates semi-permanently without battery replacement

- We will expand the reference design in the future.
- Please expand promotion as a set with a power supply and a sensor.

SW HW reference design
Under consideration



www.renesas.com