

# Battery Fuel Gauge IC Starter Kit

## Complete evaluation system for Li-ion Battery Management

Renesas offers easy-to-use Starter Kit for Battery Fuel Gauge IC (FGIC) evaluation. It includes an evaluation board and sample firmware for fast prototyping of Li-ion battery management system.

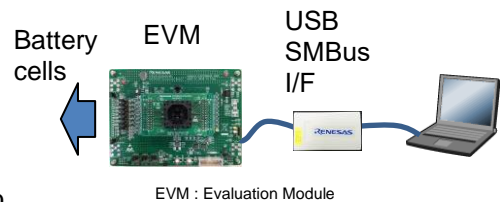


### Features:

- Populated circuit module for quick setup
- Include driver code to ease customer development
- Resistor cell simulator for quick setup with only a power supply
- GUI base PC software for battery parameter configuration

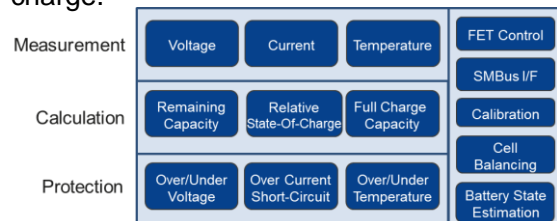
### Contents:

- FGIC circuit module
- SMBus communication interface and its cable
- Driver code (CS+ project format)
- GUI base PC software (RSB\_TOOL2)
- Documents for quick setup and software specification



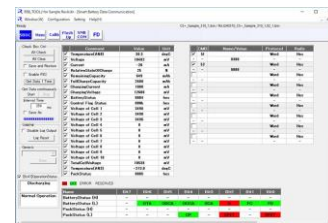
### Driver code's functions:

- Current, voltage and temperature measurement.
- Calculate remaining capacity and relative state-of-charge.
- Capacity correction by cell voltage
- Battery status monitor.
- Operating mode transition.
- Initial calibration.
- SMBus communication



### GUI base PC software (RSB\_TOOL2):

- Status monitor and data logging
- Parameter configuration
- Board level calibration
- F/W programming
- SMBus command read/write



Starter Kit Lineup	Series Cells (#)	Board Type	Main Target Application
RAJ240045	2 to 4 Cells	Mother board + IC socket board	Laptop PC, Robot Cleaner
RAJ240075	2 to 5 Cells	Surface mounted board (Small PCB)	Power Tool, Drone
RAJ240080	2 to 5 Cells	Surface mounted board (Small PCB)	Power Tool, Drone
RAJ240090	3 to 8 Cells	Mother board + IC socket board	E-Bike, Cleaner, Industrial
RAJ240100	3 to 10 Cells	Mother board + IC socket board	E-Bike, Cleaner, Industrial
RAJ240310	3 to 10 Cells	Mother board + IC socket board	E-Bike, Cleaner, Garden Tool

To request the starter kit, please contact your regional sales channel.  
 For detail of each product, please see each [product's webpage](#).