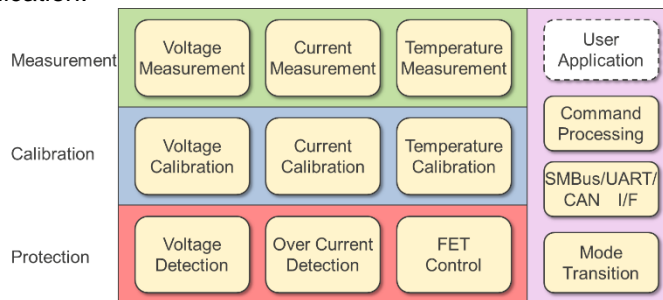# RENESAS

RAJ240090 / RAJ240100 Starter Kit

Easy-to-use RAJ240090/100 evaluation platform

Includes BASIC sample source code with the following functions enabling user customization:

- 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.

Typical battery applications

Power tool, Gardening tool, E-Bike, Cleaner, Drone, ESS·UPS

Development environment

RAJ240090/100 Starter Kit helps users to start their Li-ion multi-cell battery system development.

Components	
Evaluation module (EVM) • 3-10 cells Li-ion battery pack supported • 4 layers PCB board design • High Current design: maximum current 30A • SCP protection (2nd protection control) • Interface: SMBus, UART, CAN, E1 emulator • Board dimension: 120mm x 170mm	
Documents • Starter kit user's manual • Step by step quick start guide • Board instruction manual • Sample code specification • Specification of RSB_TOOL2 for sample code • RAJ240090/100 datasheet	

Easy-to-use evaluation setup
• USB SMBus interface adapter
• GUI based application software (RSB_TOOL2)
  Status monitor and data logging
  Parameter configuration
  Board level calibration
  F/W programming (Max data size: 64KB)
  SMBus command read/write
  Supports windows7/8/10	