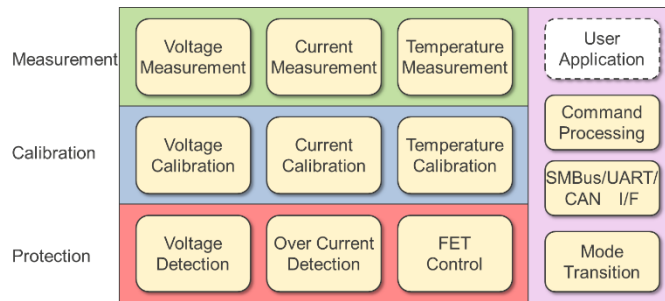# RENESAS

RAJ240080 Starter Kit

Easy-to-use RAJ240080 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

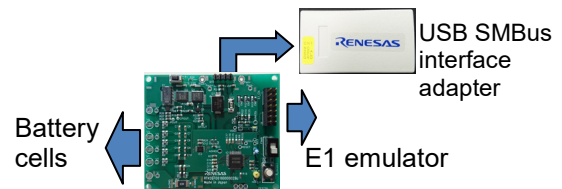Power tool, Gardening tool, Cleaner, Drone, UPS

Development environment

RAJ240080 Starter kit helps users to start their Li-ion multi-cell battery system development.
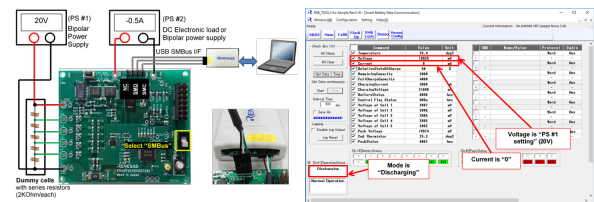
Components	
Evaluation module (EVM) • 3-5 cells Li-ion battery pack supported. • 4 layers PCB board design. • High Current design: maximum current 30A. • SCP protection (2nd protection control) • Interface: SMBus, E1 emulator. • Board dimension: 60mm x 60mm	
Documents • Starter kit user's manual. • Step by step quick start guide. • Board instruction manual. • Sample program specification • Specification of windows application(RSB_TOOL2) for sample code • RAJ240080 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
  SMBus command read/write.
  Supports windows7/8/10.	