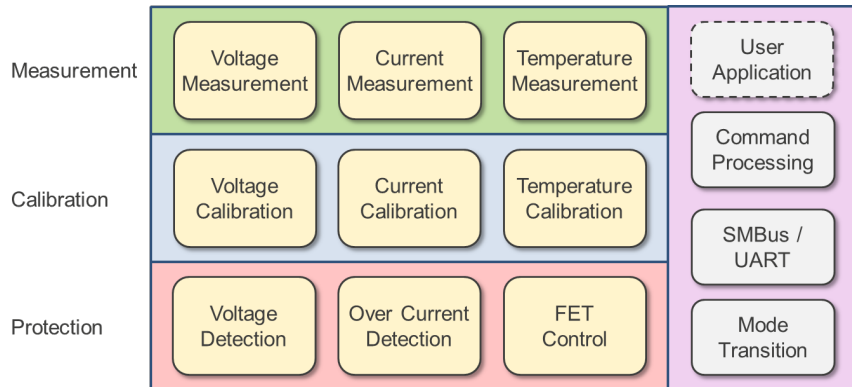


RAJ240045 Starter Kit

Easy-to-use RAJ240045 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

RAJ240045 Starter kit helps users to start their Li-ion multi-cell battery system development.

Components

<p>Evaluation module (EVM)</p> <ul style="list-style-type: none"> • 2-4 cells Li-ion battery pack supported. • 4 layers PCB board design. • High Current design: maximum current 20A. • SCP protection (2nd protection control) • Interface: SMBus, E1 emulator. • Board dimension: 150mm x 110mm 	<p>USB SMBus interface adapter</p> <p>Battery cells</p> <p>E1 emulator</p>
<p>Documents</p> <ul style="list-style-type: none"> • Starter kit user's manual. • Step by step quick start guide. • Board instruction manual. • Sample code specification • Specification of windows application(RSB_TOOL2) for sample code • RAJ240045 datasheet. 	<p>(PS #2) DC Electronic load or Bipolar power supply</p> <p>(PS #1) Bipolar Power Supply</p> <p>Dummy cells with sensing resistors (2KOhm each)</p> <p>USB SMBus I/F</p> <p>Software interface showing: Voltage = "PS #1 setting" (16.8V), Current is "0", Made to "Discharging"</p>
<p>Easy-to-use evaluation setup</p> <ul style="list-style-type: none"> • 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. 	<p>EVM</p> <p>Battery cells</p> <p>USB SMBus I/F</p> <p>RSB_TOOL2 software interface</p>