

bq2040 Evaluation Kit

Features

- Complete evaluation system for the bq2040 SBS v1.0 Compliant Gas Gauge IC
- Pre-programmed bq2040 EEPROM for quick setup
- Includes PC software and interface board for easy evaluation
- Software allows re-programming for different applications

General Description

The bq2040EVM is a complete evaluation system for the bq2040 SBS v1.0 Compliant Gas Gauge IC. The EVM includes one DM2040 circuit module, an EV2200 PC interface board for gas gauge evaluation, a PC serial cable, and Windows based PC software. The DM2040 circuit module includes one bq2040 IC, a sense resistor, four LEDs to display remaining capacity, and all other components on-board necessary to monitor capacity and other critical parameters in a Li-Ion battery pack. The DM2040 connects directly across the cells in a battery. By using the EV2200 interface board and software, the user can read the bq2040 data registers and evaluate the functions of the bq2040 under different charge/discharge conditions.

Each DM2040 included with a bq2040 Evaluation Kit is pre-configured for a specified pack voltage, chemistry, and pack capacity as outlined in Ordering Information. The kits should be ordered on the basis of the pack voltage and chemistry of the application.

Please refer to the EV2200-40 User Guide for information on how to install the software, connect the evaluation setup, and use the main features of the evaluation kit.

Ordering Information

| Part Number | Module Part Number | Chemistry | Pack Voltage | Capacity* |
|---------------|--------------------|-----------|--------------|-----------|
| bq2040EVM-001 | DM2040-001 | NiMH | 10.8V | 4.0Ah |

*Can be modified using the evaluation software.

Kit Contents

- 1 DM2040 pre-configured circuit module
- 1 EV2200-40 includes
 - EV2200 PC interface board
 - Set of evaluation software disks
 - PC serial cable
 - EEPROM programming chip
 - EV2200-40 User Guide

Support documentation including

- bq2040 data sheet
- DM2040 data sheet
- Application Note: Using the bq2040