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KIT33771ASP1EVB: Evaluation Board, MC33771: 14 Channel Li-ion Battery Cell Controller IC ARCHIVED

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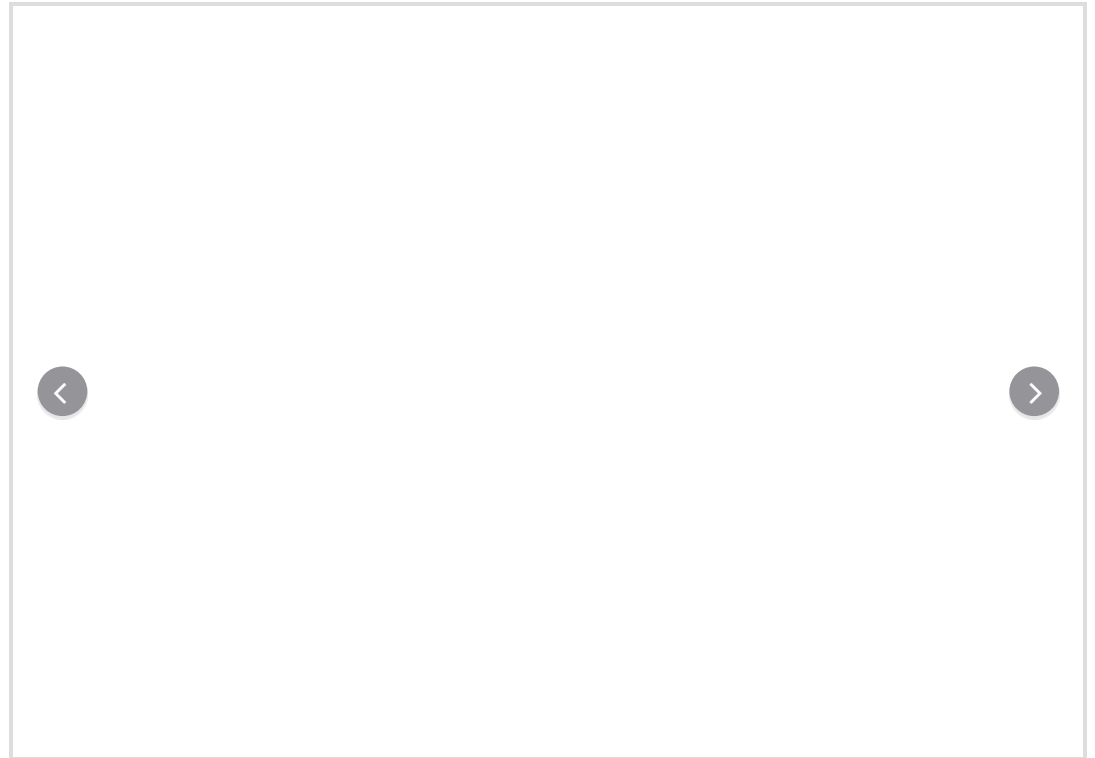
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Overview

The KIT33771ASP1EVB is a hardware tool to evaluate the MC33771, 14 channel lithium ion Battery Cells Controller IC designed for automotive and industrial applications.

- Ideal for rapid prototyping of applications for current, voltage and temperature sensing
- Performs ADC conversion on the differential cell voltage and currents as well battery charge coulomb counting and battery temperature measurements
- Includes a transformer to communicate in a high speed isolated communication network; information is digitally transmitted to a MCU for processing

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Features

This evaluation board demonstrates the features of a MC33771 Battery Cell Controller IC. The

board's main features are as follows:

- LED indicator for operation mode
- Resistor of Cell Balancing
- Transformer isolation
- The possibility to connect several BCC EVB in Daisy Chain
- Cell sense input with filter RC
- GPIO: digital I/O, wake-up inputs, convert trigger inputs, ratiometric analog inputs, analog inputs with absolute measurements
- Interface SPI with connector
- Interface I²C link to an external local EEPROM to store calibration parameters defined by user
- Fault detection pin report

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