

FRDM33772BTPLEVB: Evaluation Board for MC33772 with Isolated Daisy Chain Communication



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Overview

The FRDM33772BTPLEVB Evaluation Board (EVB) features the MC33772, a 6-channel battery cell controller for automotive and industrial Li-ion battery applications. It supports cell voltage measurement, passive cell balancing, GPIOs, external EEPROM, and fault detection pin report.

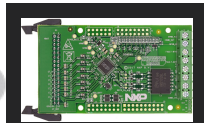
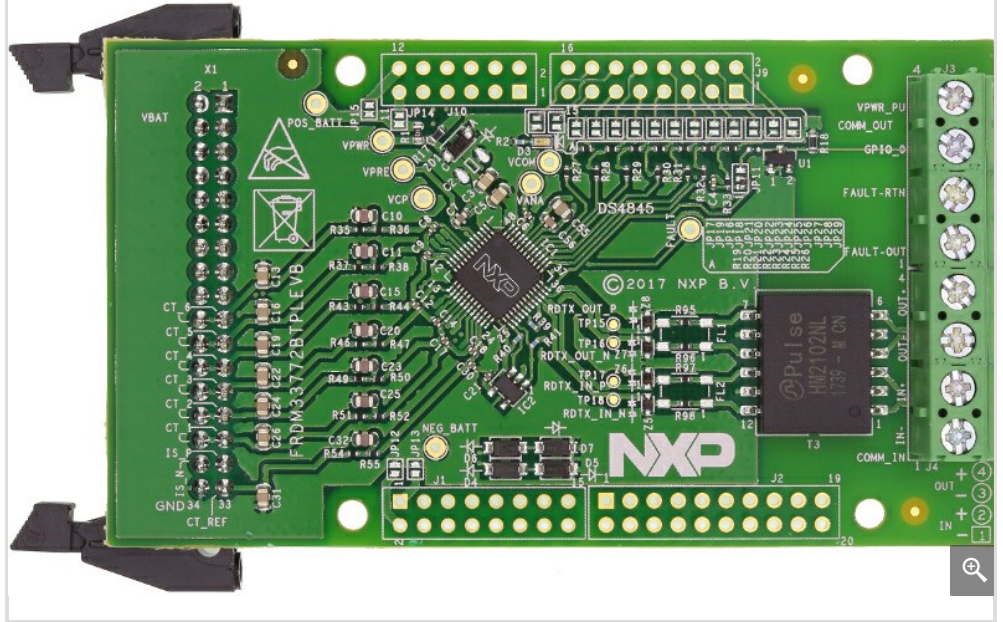
The kit is designed to support customer development and evaluation. The device can be connected to NXP 6-cell battery emulator or a customer Li-ion battery module with 3~6 logic cells in series. Up to 15 FRDM3377xBTPLEVB can be connected within a daisy chain. The battery cell information is transferred to the microcontroller unit (MCU) through an isolated differential communication bus using FRDM33664BEVB.

Features

- Daisy chain device connection with Transformer isolation
- LED indicator for the operation mode
- Cell-balancing resistors and integrated drivers
- Cell sense input with Low Pass filter
- GPIOs configurable as digital I/O, wake-up input, convert trigger input, ratiometric analog inputs for external temperature measurement, absolute analog inputs for external voltage measurements and auxiliary current sense input
- Interface I²C link to an external local EEPROM to store user-defined calibration parameters
- Isolated fault detection pin report

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Kit Contains

- Assembled and tested evaluation board/module in the anti-static bag
- Quick start guide

Supported Devices

- [MC33772](#): 6-Channel Li-ion Battery Cell Controller IC

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