

 ${\sf Home \ / \ Development\ Boards\ / \ Analog\ Toolbox\ /\ RD33771CDSTEVB\ |\ TPL\ evaluation\ board\ for\ MC33771CDSTEVB\ |\ MC33771CDSTEVB\ |\$ 

# RD33771CDSTEVB: Evaluation Board for MC33771C BCC with Isolated Daisy Chain Communication

High performance Lithium ion battery management system

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Overview

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#### Overview

The RD33771CDSTEVB evaluation board (EVB) features the MC33771C, a 14-channel battery cell controller for automotive and industrial Li-ion battery applications. It supports cell voltage measurement, passive cell balancing and GPIOs.

The kit is designed to support customer development and evaluation. The device can be connected to NXP's 14-cell battery emulator or a customer Li-ion battery module with 7~14 logic cells in series. Up to 63 RD33771CDSTEVB 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 the FRDMDUAL33664EVB.

#### **Target Applications**

Battery Management System







RD33771CDSTEVE Evaluation Board Iso2-web





RD33771CDSTEVB Evaluation Board bottom



High Voltage Battery Management System Featuring NXP's MC33771C

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Supported Devices

Power Management

MC33771C : 14-Channel Li-ion Battery Cell Controller IC

Specifications

Downloaded from Arrow.com.



#### **Technical and Functional Specifications**

Connectivity	<ul> <li>TPL communication, daisy chainable</li> <li>26 pin connector for 14 cell battery connections and 4 temperature sensors</li> </ul>
RGB LED	VCOM status
MC33771C	14 cell voltage measurements
	100 mA cell balancing
	4 external temperature measurements
	3 onboard temperature sensors
	Diagnostic functions



## **Get Started**

Get Started with the RD33771CDSTEVB

#### **Getting Started Guide**

This page will help guide you through the process of learning about your RD33771CDSTEVB board.

Get Started with the RD33771CDSTEVB (REV 1.0 )

⊕ HTML | □ PDF 12.2 MB

GS-RD33771CDSTEVB [English]

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## **Documents**

## Data Sheet (1)

MC33771 Full Data Sheet (NDA required) (REV 5.0)

Datasheet of 14-channel battery cell controller AFE IC

PDF 2kb 09 Jul 2018 DOCSTORE-MC33771-FDS [English]

# $\textbf{Application Note} \ \ (2)$

MC33771x/MC33772x Application Notes (NDA required) (REV1)

Application Notes for MC33771x/MC33772x

PDF 739kb 29 Jan 2020 DOCSTORE-RD33771CDSTEVB-AN [English]

AN4388, Quad Flat Package (QFP) - Application Note (REV 3.0)

This application note provides guidelines for the handling and board mounting of NXP's QFP packages including recommendations for printed-circuit board (PCB) design, board mounting and rework.

 PDF
 7.6 MB
 09 Jan 2019
 AN4388
 [ English , Chinese ]

Users Guide (2)



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