KIT33664EVB: Evaluation Board, MC33664, Isolated Network High Speed Transceiver ARCHIVED

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Overview

This Evaluation board features the MC33664TL a transceiver physical layer transformer driver designed to conveniently interface a microcontroller to a high speed isolated communication network. MCU SPI data bits are directly converted to pulse bit information and transferred to the bus network.

Slave response messages use the same structure to send pulse bit information to the 33664TL which is then converted to a SPI bit stream sent back to the MCU.

This board works in conjunction with the MC33771 Battery Cell Controller IC. The MC33771 is a lithium ion Battery Cell Controller IC designed for automotive applications, such as hybrid electric (HEV) and electric vehicle (EV) systems as well as industrial applications, such as energy storage systems (ESS) and uninterruptible power supply (UPS) systems.

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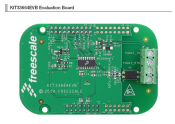

KIT33664EVB
Evaluation Board

Features

- 2.0 Mbps isolated network communication rate
- Dual SPI architecture for message confirmation
- Robust conducted and radiated immunity with wake-up
- 3.3 V and 5.0 V compatible logic thresholds
- Engineered for 5.0 meter, 15 node system
- Low sleep mode current with automatic bus wake-up
- Ultra-low radiated emissions