

PMIC for NXP Semiconductor iMX 8M* Series Application Processors

Platform-specific design enables optimal power supply designs

BD71837AMWV

*The i.MX 8M series refers to i.MX 8M Quad/QuadLite/Dual

APEC

Features

- High efficiency 8ch buck converter + 7ch LDO
- Sequencer optimized for i.MX 8M series processors
- Built-in SD card power switch and 32.768kHz crystal oscillator driver
- OrCAD reference circuit schematic and Allegro reference layout data available upon request (free of charge)

Applications

- Audio/video streaming devices, smart speakers, AV receivers
- HMI (Human Machine Interface), digital signage, gaming devices, and other industrial equipment



Video Streaming Devices



HMI (Human Machine Interface)



AV Receivers



Smart Speakers

DISCOVER THE POWER

ROHM
SEMICONDUCTOR

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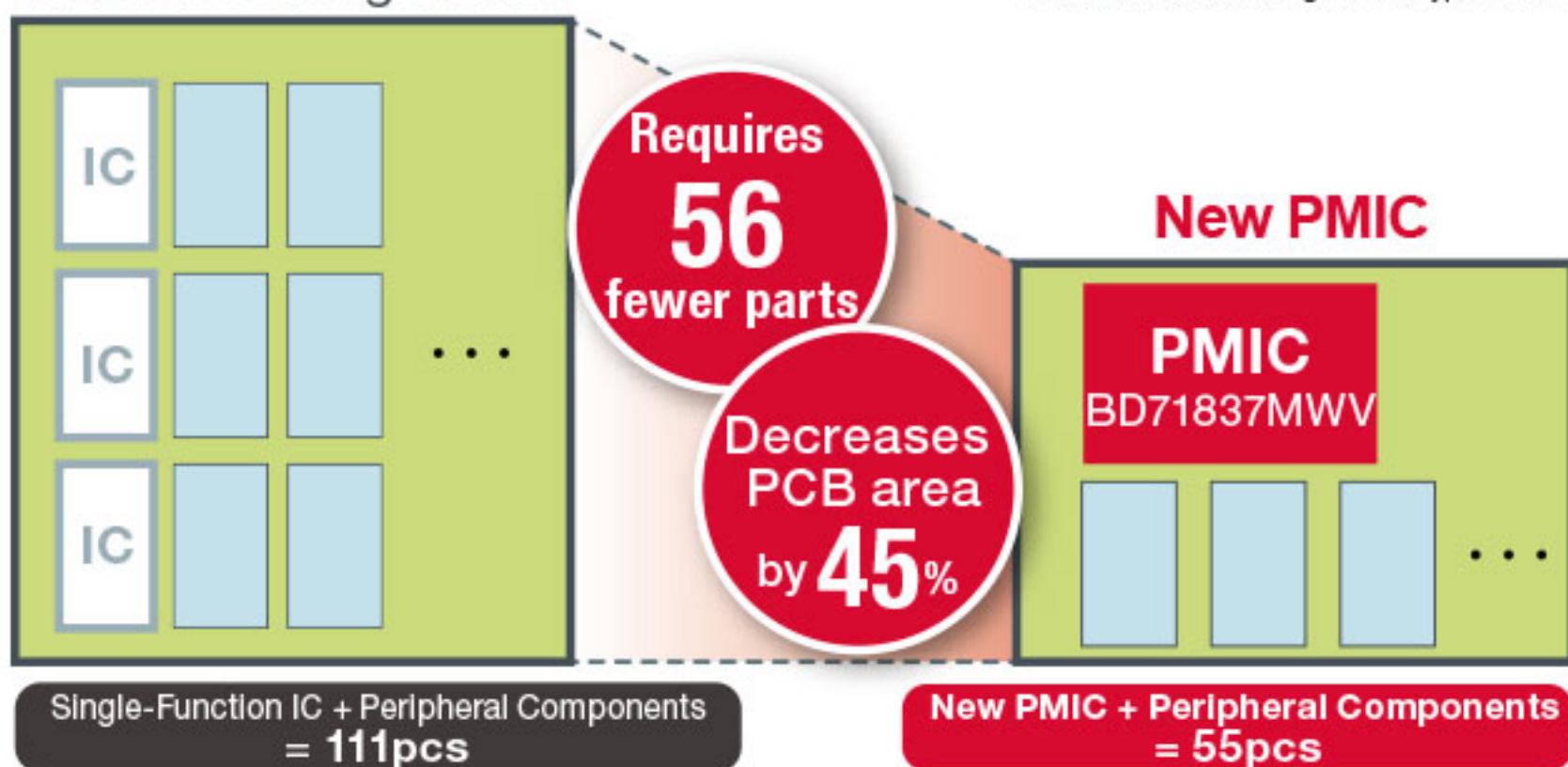
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APEC

Compact, space-saving design reduces the number of external parts

Discrete Configuration

*When mounted on a single-sided Type-3 PCB



ROHM's new PMIC makes it possible to significantly reduce both the PCB area and number of parts required

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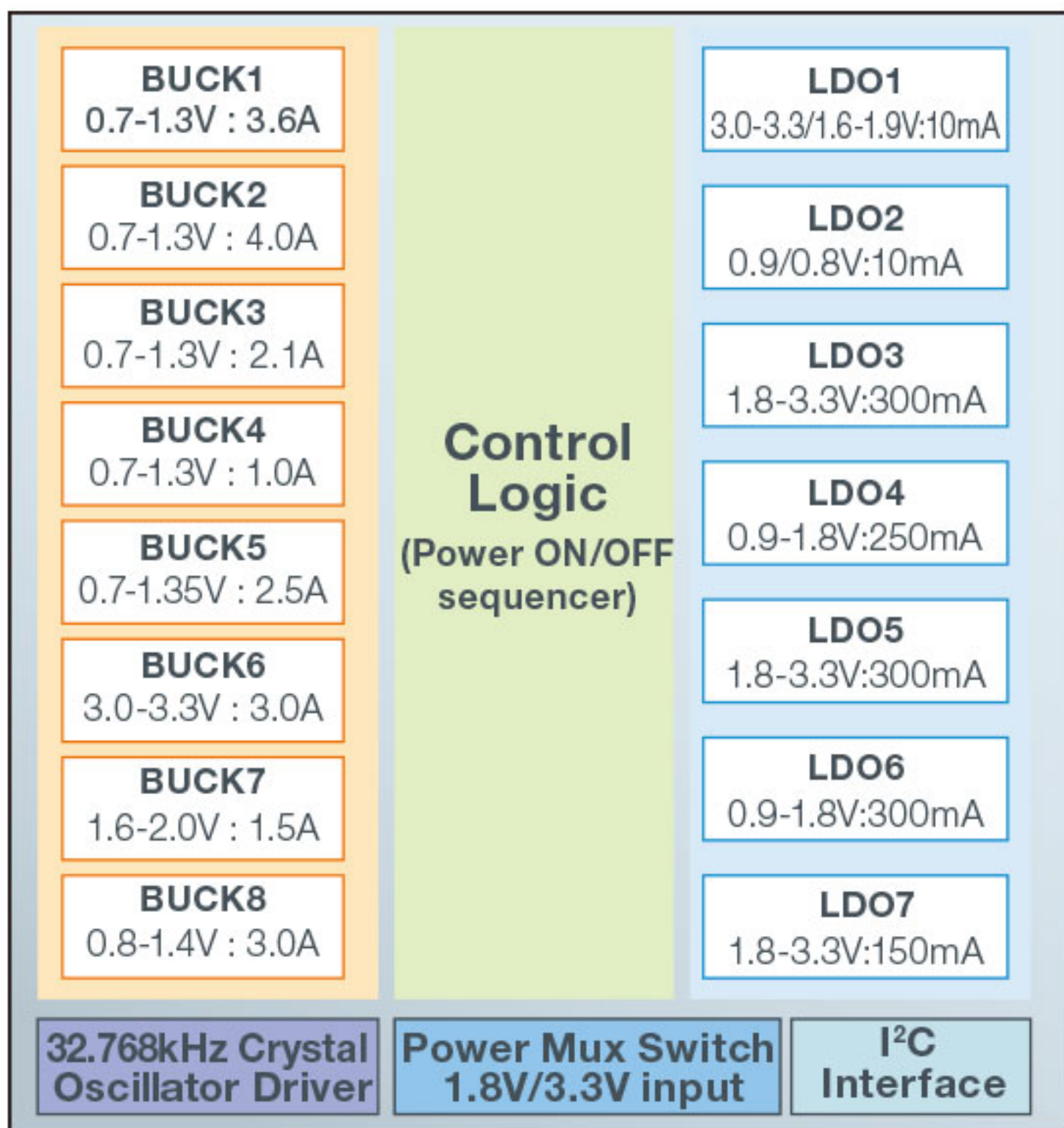
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Block Diagram



All power supplies required by the system are integrated on one chip

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Optimized for the Power Rails of the i.MX 8M Series

