

General Description

The TCS8302 is a 2-CH power management IC for applications powered by one Li-Ion battery or a DC 5V adapter. It integrates dual synchronous buck regulators and can provide high efficiency output at light load and heavy load operation. The internal compensation architecture simplifies the application circuit design. Besides, the independent enable control makes the designer have the greatest flexibility to optimize timing for power sequencing purposes. The TCS8302 is available in a 10 pin DFN package.

Feature

2.5V to 5.5V Input Voltage Range

Two Buck Converters

Output Voltage Range: 0.6V to Vin

Maximum Continuous Load Current: 1.5A (2CH total output power consumption must be less than 5W)

Fixed 1.5MHz Switching Frequency

100% Duty Cycle Low Dropout Operation

<1 μ A Shutdown Current

Independent Enable Control

Internal Compensation

Cycle-by-Cycle Current Limit

Short Circuit Protection

Each Channel Efficiency Up to 95%

Auto Recovery OTP Protection

Available in 10-pin 3mm \times 3mm DFN Package

Applications

Wi-Fi Card

Wi-Fi Router/AP

GPS

STB

Typical Application Circuit

