MAX20014EVKIT

Evaluation Kit for the MAX20014

Description

The MAX20014 evaluation kit (EV kit) is a fully assembled and tested PCB that demonstrates the MAX20014 power management IC (PMIC). The EV kit includes three highefficiency, low-voltage DC-DC converters: OUT1 boosts a 3.3V input to 5V at up to 500mA, while two synchronous step-down converters (OUT2, OUT3) provide adjustable output voltages down to 0.8V at up to 3A. The 2.2MHz switching-frequency operation allows for the use of allceramic capacitors and minimizes external components.

The EV kits feature three on/off jumper controls, and three reset outputs to indicate output status for each converter. It also provides SYNC input to select the operating mode (PWM, skip, or external synchronization).

Key Features

- 3.0V to 5.5V Operating Supply Voltage
- 5V at 500mA Synchronous Boost Converter (OUT1)
- 1.25V at 3A Synchronous Buck Converter (OUT2)
- 1.8V at 3A Synchronous Buck Converter (OUT3)
- Sync-Mode Select/Input for Forced-PWM/Skip Mode Selection or External Frequency Synchronization
- Individual Active-Low RESET1–RESET3 Outputs
- Minimal External Components
- Proven PCB Layout
- Fully Assembled and Tested