



MAX20414EVKIT

Evaluation Kit for the MAX20414

Description

The MAX20414 evaluation kit (EV kit) is a fully assembled and tested PCB that demonstrates the MAX20414 power-management IC (PMIC). The EV kits include two high-efficiency, low-voltage DC-DC converters. OUT1 boosts a 3.3V input to 5V at up to 500mA, while the OUT2 step-down converter provides adjustable output voltages down to 0.8V at up to 3A. The 2.2MHz switching-frequency operation allows for the use of all-ceramic capacitors and minimizes external components.

The EV kit features two on/off jumper controls and two reset outputs (active-low RESET1, active-low RESET2) to indicate output status for each converter. It also provides a SYNC input to select the operating mode (forced-PWM, skip, or external frequency synchronization).

Key Features

- 3V to 5.5V Operating Supply Voltage
- 5V at 500mA Synchronous Boost Converter (OUT1)
- 1.25V at 3A Synchronous Buck Converter (OUT2)
- SYNC Mode Select Input for Forced-PWM (FPWM), Skip Mode Selection, or External Frequency Synchronization
- Individual Active-Low RESET_ Outputs
- Minimized External Components
- Proven PCB Layout
- Fully Assembled and Tested

Applications/Uses

- ADAS
- Infotainment
- SOC Power