



MAX20419EVKIT

Evaluation Kit for the MAX20419



NDA Required. Request Full Data Sheet

Description

The MAX20419 evaluation kit (EV kit) is a fully assembled and tested PCB that demonstrates the MAX20419ATGB/V+ power-management IC (PMIC). The EV kit includes three high-efficiency, low-voltage DC-DC converters: OUT1 boosts a 3.3V input to 5V at up to 750mA, while two synchronous step-down converters (OUT2, OUT3) provide output voltages of 2.3V and 1.25V up to 2A. The 2.2MHz switching-frequency operation allows for the use of all-ceramic capacitors and minimizes external components.

The EV kit features three on/off jumper controls and three reset outputs to indicate output status for each converter. The EV kit also provides a SYNC input to select the operating mode (PWM, skip, or external synchronization), and an open-drain power-good output (active-low PV_OV) that asserts when the input supply voltage is 3.7% above or below the target input voltage.

Key Features

- 3.0V to 5.5V Operating Supply Voltage
- 5V at 750mA Synchronous Boost Converter (OUT1)
- 1.25V at 2A Synchronous Buck Converter (OUT2)
- 2.3V at 2A Synchronous Buck Converter (OUT3)
- Programmable Windowed Watchdog
- SYNC Mode Select/Input for Forced-PWM (FPWM) and Skip-Mode Selection, or External Frequency Synchronization
- Individual Active-Low RESET_ Outputs
- Active-Low PV_OV Input Power-Good Indicator
- Minimized External Components
- Proven PCB Layout
- Fully Assembled and Tested

Applications/Uses

- ADAS
- Infotainment
- SOC Power