

The MP8864 is a high-frequency, synchronous, rectified, step-down, switch-mode converter with an I<sup>2</sup>C control interface. The MP8864 offers a very compact solution that achieves 4A of continuous output current with excellent load and line regulation over a wide input supply range. The MP8864 uses synchronous mode operation for higher efficiency over the output load range.

Highly customizable, the MP8864 is capable of supporting a diverse array of mid-voltage applications. Users can program it via an MPS I<sup>2</sup>C GUI. Changes made in I<sup>2</sup>C mode will not be retained once the EVB is powered down.

The EVKT8864 is a valuable evaluation tool well-suited for all types of experience levels, from beginner to expert, and can help users quickly determine if the MP8864 is right for their target application.

### Kit Contents

- EV8864Evaluation Board (EV8864-Q-00A)
- Dongle with Accessories (EVKT-USB12C-02)
  - USB to I<sup>2</sup>C Dongle
  - Ribbon Cable & USB Cable
- USB thumb drive that stores GUI installation file and supplemental documents



\*Laptop not included

Feature	Specification
Supply for Board	4.5V - 21V
Operating Input Voltage	4.5V - 21V
Operating Systems Supported	Windows XP, 7, and later
System Requirements	Minimum 22.2 MB free
GUI Software	2 Register Controls: VSEL, System
EVB Size (L x W)	6.4cm x 6.4cm

### Quick Start (Refer to user guide for more details.)

1. Install the GUI software.
2. Use the provided ribbon cable to connect the EVB and the USB to I<sup>2</sup>C dongle.
3. Preset the power supply output to between 4.5V and 21V and connect the EVB.
4. Connect the dongle to the PC and turn the power supply on.
5. Open the GUI software and program as needed.

*\*Kit offers rapid application assessment and requires minimal external components*

