EVKT-8865 Product Brief

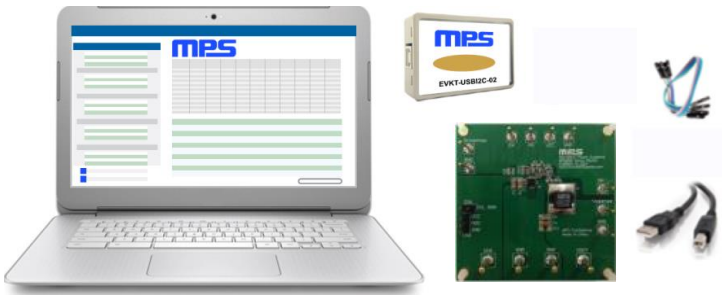
MP8865 Evaluation Kit

21V, 6A, High-Efficiency, Sync, Step-Down Converter with I²C Interface

The MP8865 is a high-frequency, synchronous, rectified, step-down, switch-mode converter with an I2C control interface. The MP8865 offers a very compact solution that achieves 6A of continuous output current with excellent load and line regulation over a wide input supply range. The MP8865 uses synchronous-mode operation for higher efficiency over the output load range.

Highly customizable, the MP8865 is capable of supporting a diverse array of mid-voltage applications. Users can program it via an MPS I2C GUI; however, changes made in I2C mode will not be retained once the EVB is powered down.

The EVKT8865 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 MP8865 is right for their target application.



*Laptop not included

Kit Contents

- EV8864 evaluation board (EV8865-Q-00A)
- Communication interface with accessories (EVKT-USBI2C-02)
    - USB-to-I2C communication interface
    - Ribbon cable and USB cable

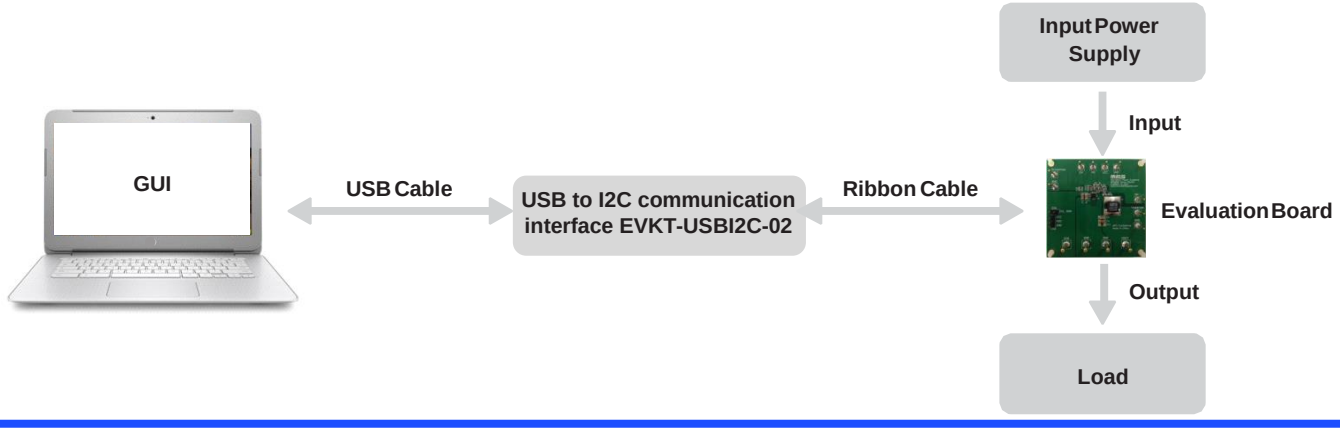
**GUI installation file and supplemental documents can be downloaded from the MPS website*

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 I2C communication interface.
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*



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