EVKT-MP8859 Product Brief

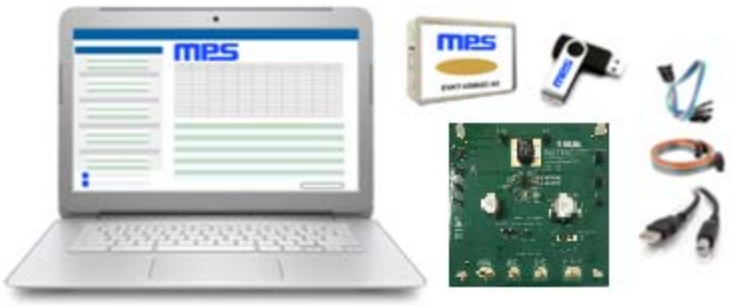
MP8859 Evaluation Kit

2.8 - 22V, 3A, 4-Switch, Integrated Buck-Boost Converter with I2C Interface

The MP8859 is a synchronous, 4-switch, integrated buck-boost converter capable of regulating the output voltage from a wide 2.8V to 22V input voltage range with high efficiency. Integrated output voltage scaling and adjustable output current limit functions meet the USB power delivery (PD) requirement.

The MP8859 is highly customizable and can support a diverse array of applications. The MP8859 is programmable via an MPS I2C GUI. However, changes made in I2C mode will not be retained once the EVB is powered down.

The EVKT-MP8859 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 MP8859 is right for their target application.



*Laptop not included

Kit Contents

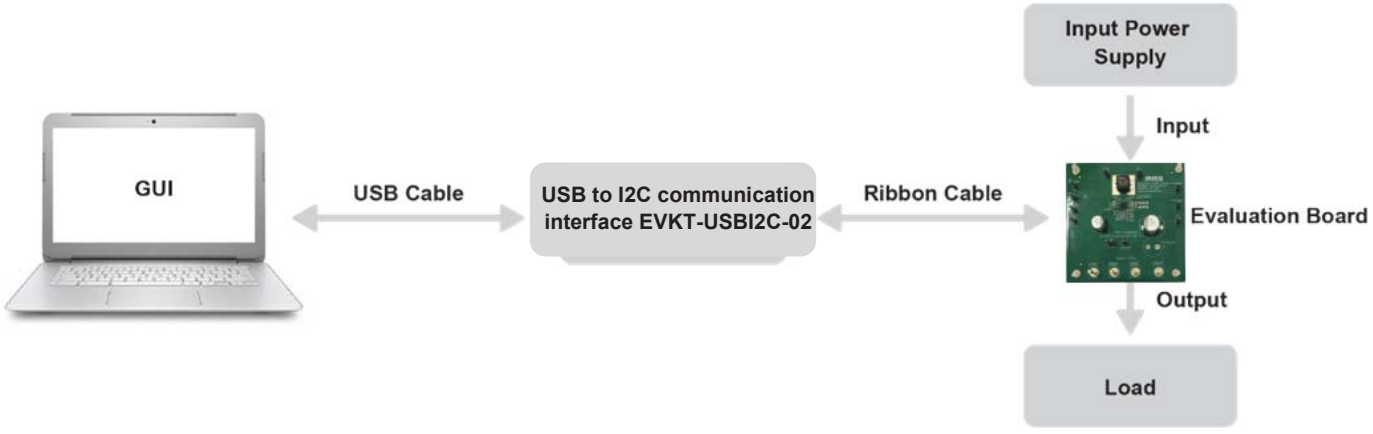
- EV8859 evaluation board (EV8859-Q-00B)
- Communication Interface with accessories (EVKT-USBI2C-02)
  - USB to I2C communication interface
  - Ribbon cable & USB cable
- USB thumb drive that stores GUI installation file and supplemental documents

Feature	Specification
Operating input voltage	2.8V - 22V
Operating systems supported	Windows 7 or later
System requirements	Minimum 22.2 MB free
GUI software	5 register controls: interrupt, Vout, current, control, mask
EVB size (L x W)	6.35cm x 6.35cm

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 2.8V and 22V and connect the EVB.
4. Connect the communication interface 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*



MPS Proprietary Information. Patent Protected. Unauthorized Photocopy and Duplication Prohibited.
© 2018 MPS. All Rights Reserved.