

EVAL_PMG1_B1_DRP Kit release notes

About this document

Scope and purpose

Thank you for your interest in the EVAL_PMG1_B1_DRP Kit. This document lists the kit contents, installation instructions, and known limitations.

Intended audience

This document is intended for anyone who uses the Infineon EVAL_PMG1_B1_DRP kit.

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Release contents

1 Release contents

1.1 Kit contents

The EVAL_PMG1_B1_DRP Kit includes the following:

- EVAL_PMG1_B1_DRP Kit Board
- Quick start guide

Tool information

2 Tool information

2.1 Software, Tools & Installation

The EVAL_PMG1_B1_DRP Kit comes with the full package of documentation and hardware design files. The kit ships with the USB-PD DRP firmware and is pre-programmed at the factory. This firmware can support upto 100W (20 V @ 5 A) of power consumption as a sink device and can support upto 27 W (9 V @ 3 A) as power source.

As such, no software tools are needed to operate the kit or to run a quick demo. However, to effectively perform all the demos documented in the user guide, the following installation is recommended:

Download and install the latest ModusToolbox™ software package. Support for PMG1-B1 device is added in ModusToolbox™ version 3.0 onwards. Note that this package is large and downloading may take a while depending on the available internet bandwidth.

2.2 Hardware requirement

The following hardware is essential to perform the demos documented in the kit user guide. Refer to EVAL_PMG1_B1_DRP kit user guide for additional details.

- A USB-C power adapter that can supply power over the Type-C port
- USB-C cable (if not already provided with the USB-C power adapter) for connecting the USB Type-C power adapter to the Type-C receptacle on the EVAL_PMG1_B1_DRP Kit Board
- 2S to 5S cell lithium-ion battery that can be charged using EVAL_PMG1_B1_DRP Kit Board
- A two-wire cable which is used to short J9 and J11 during DRP application
- A digital multimeter, along with any additional measurement equipment if needed
- A 3-mm flat-head screwdriver

2.3 Kit version

This is the initial revision (Rev. **) of this kit.

2.4 Warnings

Usage of the EVAL_PMG1_B1_DRP Kit involves dealing with up to 100 W of power consumption. It is expected that the kit usage is done by or in presence of professionals and experts who are well aware of proper usage of batteries and power supplies. Proper care and handling, including but not limited to connecting the correct battery terminals to the marked polarities (+/-) on the kit board, using compatible Li-Ion batteries, not applying reverse voltages, etc. should be taken when using this kit. Failure to set up the kit correctly or not operating the demonstrations as documented in the user guide may result in a fire hazard and/or cause significant damage to other equipment or the environment in which the kit is being used.

2.5 Known issues

None.

Tool information

2.6 Documentation

The following kit documents are available on the kit [webpage](#).

- EVAL_PMG1_B1_DRP kit guide.pdf
- EVAL_PMG1_B1_DRP kit quick start guide.pdf
- EVAL_PMG1_B1_DRP kit release notes.pdf

2.7 Technical support

For assistance, go to www.infineon.com/support. Visit community.infineon.com to ask your questions in the Infineon developer community.

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Warnings

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