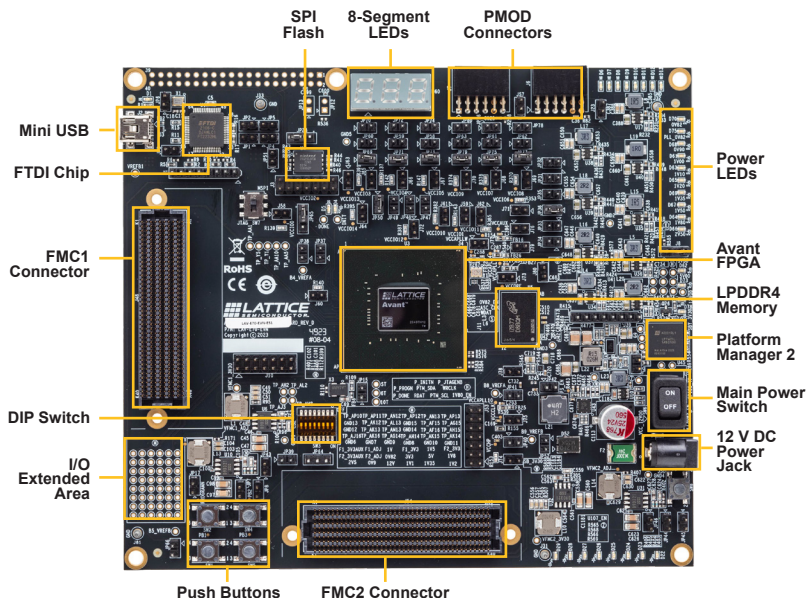


This document provides a brief introduction to the Avant-E Evaluation Board.



1

Check Kit Contents

The Avant-E Evaluation Board Kit contains the following items:

- Avant-E Evaluation Board
- 12 V AC/DC Adapter and International Plug Adapters
- USB Cable for Programming via PC (USB-A to Mini-B)
- Quick Start Guide
- Lattice Radiant software download information

2

Using the Avant-E Evaluation Board

The Avant-E Evaluation Board as shipped supports Master-SPI based configuration. The external SPI Flash Configuration Memory is pre-loaded with a LED blinking demonstration program.

3

Installing the Software

The Avant-E Evaluation Board is pre-programmed with a basic demonstration.

To develop your own solutions, download and use the Lattice Radiant design software (version 2023.2 or later) in latticesemi.com/software.

If you only need to re-program the board, you can use the Radiant Programmer Standalone software (version 2023.2 or later).

4

Powering the Boards and Observing the Demo Program

Connect the 12 V power supply to J50. Toggle switch SW6 to the ON position. All the green power LEDs should light up to indicate that the board has proper power. Avant (U3) will upload the configuration bitstream from the flash memory (U4), ~ 45s. After configuration, LEDs D6 to D13 and D22 to D29 will blink in a repeating pattern. The three 8-segment LEDs will alternate display the number eight and decimal point.

5

Doing More with the Avant-E Evaluation Board

Check the Lattice website at latticesemi.com/avant-e-evaluation-board to download the full User's Guide, the full source code of the default demo, and other resources. You can use the Lattice Radiant software to develop and program your own demos.

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