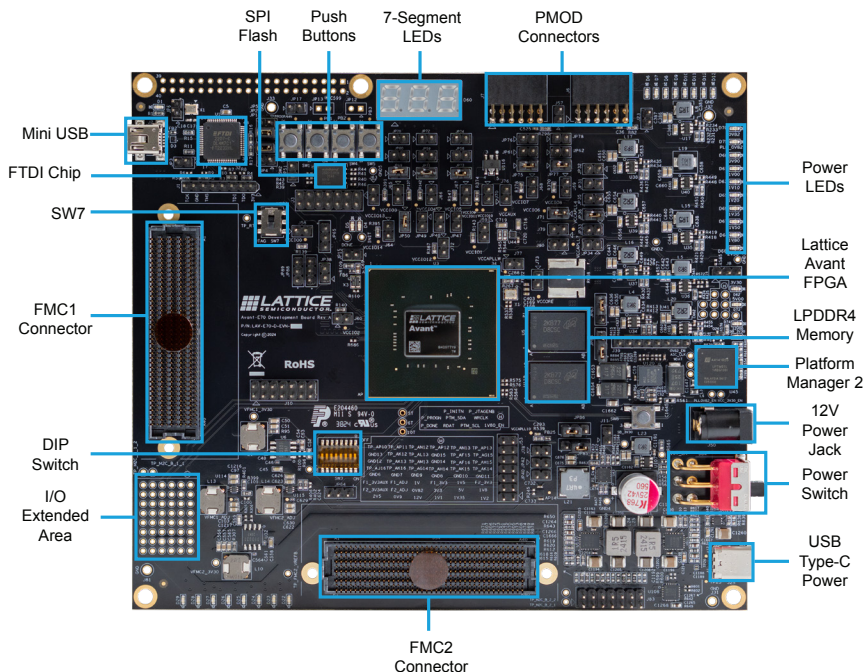


This document provides a brief introduction to the Lattice Avant-E70 Development Board.



1

Check Kit Content

The Lattice Avant-E70 Development Board Kit contains the following items:

- Lattice Avant-E70 Development Board
- 12 V AC/DC Adapter and International Plug Adapters
- USB Cable for Programming vis PC (USB-A to Mini-B)
- Quick Start Guide with Lattice Radiant software download information

2

Power Up the Board

The Lattice Avant-E70 Development 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 Lattice Avant-E70 Development Board is preprogrammed with a basic demonstration.
- To develop your own solutions, download and use the Lattice Radiant (version 2023.2 or later) in latticesemi.com/software.
- If you only need to re-program the board, you can use the Lattice Radiant programmer Standalone Software (version 2023.2 or later).

4

Powering the Board and Observing the Demo Program

Connect the 12 V power supply to J50. Close JP36&JP51. Set SW7 to MSPI. Toggle switch J84 to the up position. All the yellow green power LEDs should light up regularly to indicate that the board has proper power. Lattice Avant (U3) will upload the configuration bitstream from the flash memory (U4), ~3s. After configuration, LEDs D6 to D13 and D22 to D29 will blink in a repeating pattern.

5

Doing More with Lattice Avant-E70 Development Board

Check the Lattice website at latticesemi.com/avant-e-development-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.

Additional Terms and Conditions Applicable to Lattice Programming and Development Hardware

Lattice device programmers, programming cables, socket adapters, and other hardware sold for use in conjunction with Lattice software ("Programming Hardware") and Lattice evaluation boards and development kits sold for use in conjunction with evaluating Lattice products ("Development Hardware") are designed and intended for use solely with semiconductor components manufactured by Lattice Semiconductor Corporation. Programming and Development Hardware is warranted to meet Lattice specifications only for a period of ninety (90) days; in all other respects the terms and conditions of sale of Programming and Development Hardware shall be Lattice's standard terms and conditions set forth in Lattice's Sales Order Acknowledgment. Additionally, Lattice specifications for Programming and Development Hardware limit their use to low-volume engineering applications only, and not for volume production use. The warranty for Programming and Development Hardware will not apply to any Programming or Development Hardware used in production, used with worn or improperly installed hardware, or used with incompatible systems or components.

Technical Support

www.latticesemi.com/support

Copyright © 2026 Lattice Semiconductor Corporation. Lattice Semiconductor, L (stylized) Lattice Semiconductor Corp., Lattice (design) are either registered trademarks or trademarks of Lattice Semiconductor Corporation in the United States and/or other countries. Other product names used in this publication are for identification purposes only and may be trademarks of their respective companies.