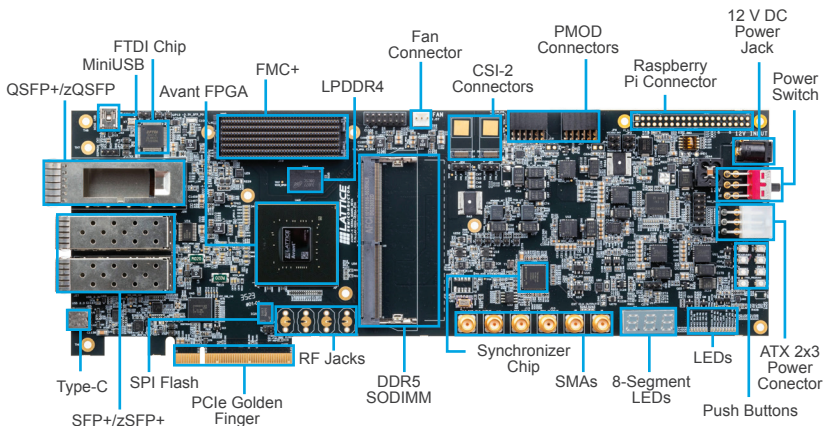


This document provides a brief introduction to the Avant-G/X Versa Board.



1

Check Kit Contents

The Avant-G/X Versa Board kit contains the following items:

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

2

Using the Avant-G/X Versa Board

The Avant-G/X Versa Board kit contains the following items 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-G/X Versa Board is pre-programmed with a demonstration bitstream file.
- 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), and the USB cable should be connected from J33 to the PC, and Jumper JP1 should be installed to set JTAG mode.

4 Powering the Board and Observing the Demo Program

Make sure that the following jumpers are installed in default.

Avant-G/X Versa Board	
Jumper	Pins to Connect
J59	Install Pin 2 and Pin 3 (Power for PMIC)
J58	Install Pin 2 and Pin 3 (Power for VCCBAT)
JP8	Install the jumper (Power for VCCIO12)
J20	Install Pin 9 and Pin 11 (optional, depends on board's OPN)

With connecting the supplied 12 V DC power adapter to the power input jack (J1) on the board, pull UP the switch (J2) to power on, all power good LEDs will be lighted up indicating the board is powered up, and configuration of the Avant-G/X Versa Board from the external flash is completed almost immediately, as external SPI Flash Configuration Memory was pre-loaded with a Digital LED blinking demonstration program.

- LEDs D9, D10, D13, D14, D19, D20, D21, D24, D25, D26, D27, D29, D30, D31, D32, D39, D40, D41, D42, D7, D47, D46, D45 were lighted up.
- 8-Segment LEDs (D8) should change as a cycle from "0.0.0" to "9.9.9" per sec.

5 Doing More with the Avant-G/X Versa Board

Check the Lattice website at latticesemi.com/avant-g-versa-board and latticesemi.com/avant-x-versa-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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www.latticesemi.com/support

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