

Alchitry Cu (Copper)

FPGA Development Board

Product Overview

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For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun Alchitry Cu (Copper) FPGA Development Board features the Lattice iCE40 HX FPGA with 7680 logic cells. Field-Programmable Gate Array boards are advanced development tool for engineers and hobbyists. The copper version is lighter than the Alchitry Au (Gold). Alchitry Cu is supported by the open-source tool chain Project IceStorm.

The Cu possesses 79 I/O pins with eight general-purpose LEDs, a 100MHz onboard clock that can be manipulated internally by the FPGA, a USB-C connector to configure and power the board, and a USB-to-serial interface for data transfer. The Alchitry Cu is also able to expand its own hardware capabilities by adding prototyping spaces, buttons, LEDs, and more.



Features

- Lattice iCE40-HX8K FPGA with 7680 logic elements
- 79x I/O pins (3.3V logic level)
- USB-C to configure and power the board
- 8x general purpose LEDs
- 1x button (typically used as a reset)
- 100MHz onboard clock (can be multiplied internally by the FPGA)
- Powered with 5V through USB-C port, 0.1-inch holes, and headers
- USB-to-serial interface for data transfer (up to 12Mbaud)
- 65mm x 45mm dimensions

Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-alchitry-cu-fpga-dev-board/>