



Alchitry



Product Brief



Overview

The Alchitry Cu is the lighter of our two FPGA development boards but offers something completely unique. The Cu uses a Lattice iCE40 HX FPGA that is supported by the open source toolchain, Project IceStorm.

With Project IceStorm and Alchitry Labs you can develop for the Cu using completely open source tools. Of course, you can also use, iCEcube2, Lattice's proprietary toolchain.

This is an excellent board for getting your feet wet with FPGAs or for smaller projects.

Features

FPGA	iCE40-HX8K
IO	79 pins at 3.3V
Board Peripherals	8 general purpose LEDs 1 general purpose button (typically used as a reset) 1 status LED to show when the FPGA is configured 100MHz clock (FPGA can synthesize new frequencies) Serial interface over USB C port via FT2232H (12M Baud max)
Programming	SPI programming of flash over USB C port via FT2232H
Power Options	5V through USB C port, 0.1" holes, or SMT headers
Power Regulation	3.3V @ 3A - used for on-board peripherals and IO 1.2V @ 1.5A - used by FPGA internal logic
Dimensions	65mm x 45mm
Operating Temperature	0-60°C

Physical Dimensions

