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PRODUCT CATEGORIES / FPGA / ALCHITRY AU FPGA DEVELOPMENT BOARD (XILINX ARTIX 7)

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Previous Versions -

Alchitry Au FPGA Development Board (Xilinx Artix 7)

ADD TO CART

The Alchitry Au is the "gold" standard for FPGA development boards and it's

possibly one of the strongest boards of its type on the market. FPGAs, or Field-

★ ★ ★ ☆ 6

\$109.95

DESCRIPTION

Stock availability

FEATURES DOCUMENTS

Programmable Gate Arrays, are an advanced development board type for engineers and hobbyists alike to experience the next step in programming with electronics. The Au continues the trend of more affordable and increasingly powerful FPGA boards arriving each year. This board is a fantastic starting point into the world of FPGAs and the heart of your next project. Finally, now that this board is built by SparkFun, we added a Qwiic connector for easy I²C integration! The Alchitry Au features a Xilinx Artix 7 XC7A35T-1C FPGA with over 33,000 logic cells and 256MB of DDR3 RAM. The Au offers 102 3.3V logic level IO pins,

20 of which can be switched to 1.8V; Nine differential analog inputs; Eight general purpose LEDs; a 100MHz on-board 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. To make getting started even easier, all Alchitry boards have full Lucid support, a built in library of useful components to use in your project, and a debugger! By adding stackable expansion boards similar to shields or HATs called "Elements," the Alchitry Au is able to expand its own hardware capabilities by

adding prototyping spaces, buttons, LEDs, and more! The SparkFun Qwiic Connect System is an ecosystem of I²C sensors, actuators, shields and cables that make prototyping faster and less prone to error. All Qwiic-

enabled boards use a common 1mm pitch, 4-pin JST connector. This reduces the amount of required PCB space, and polarized connections mean you can't hook it up wrong. GET STARTED WITH OUR LEARNING FPGA TUTORIALS

ARTIX 7 AU DEVELOPMENT FPGA GOLD QWIIC

Tags

ALCHITRY

QWIIC ADVANCED DEV BOARDS SPARKFUN ORIGINAL STACKABLE USB-C XILINX

Hookup Accessories for Alchitry Au FPGA Development Board (Xilinx Artix 7)

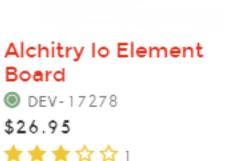
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\$16.95 **★★☆☆☆**2



\$16.50



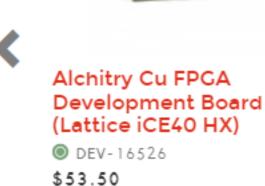
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PRT-16891

\$2.10

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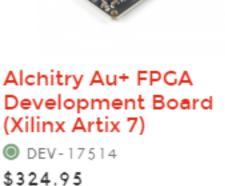


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Alchitry Au FPGA Development Board (Xilinx Artix 7) Product Help and Resources

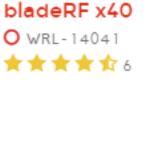
VIDEOS

SKILLS NEEDED



★★★☆3





JULY 30, 2020

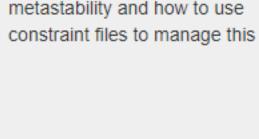
TUTORIALS







MaxCounter



Why external signals can cause

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Special Function Mapping

External IO and

Metastability

JULY 30, 2020

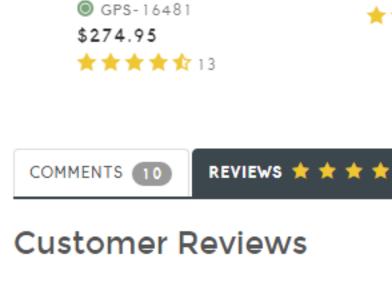


SparkFun GPS-RTK-SparkFun RTK Facet

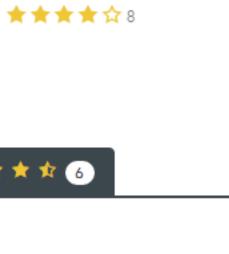
SMA Breakout - ZED-

F9P (Qwiic)

Frequently Bought Together



★ ★ ★ ★ 4.5 out of 5



3

3

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O GPS-19984

\$699.95

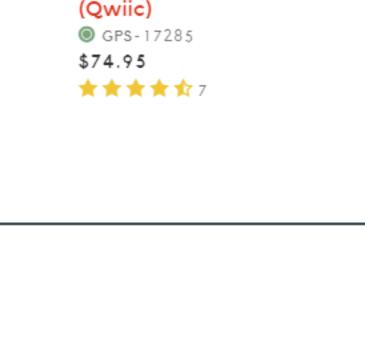


MyoWare 2.0 Muscle

Sensor

\$39.95

O DEV-21265



SparkFun GPS Breakout

- NEO-M9N, SMA



0 of 1 found this helpful:

Based on 6 ratings:

5 star

4 star

3 star

★★★☆ nice compact board about 3 years ago by cx4 ✓ verified purchaser I just started to learn FPGA which is completely different than microcontroller and little hard . but the board is

★★★★ Neat little board

Currently viewing all customer reviews.

about 3 years ago by r1cebank ✓ verified purchaser I got the AU and CU version of the board I have to say its very well built little FPGA board, I don't have a lot of experience working with FPGA, so when I tried to get into it I hated the traditional FPGA boards often offered

requires strong press to function I would like to change that in future revision.

easy to use and for a beginner the expansion board is enough to get you started.

★ ★ ★ ★ Great product about 2 years ago by Member #1621132 ✓ verified purchaser Easy-ish to use. Examples are mostly for older Mojo board, but translate pretty easily. I added a java lib to more easily a create a java-based host application with gradle dependency management to communicate over USB

Advice: buy the Learning FPGAs book by Rajewski and read it while you are waiting on the Vivado tooling to

(usually big and require a programmer) Alchitry AU is definitely not the best FPGA board out there, but it is small,

small and connected by usb to make life little easier very good board but io element shield has little buttons it

★★★★☆ Really love the hardware, LUCID sw and the tutorials!

https://github.com/chuckb/RegisterInterface

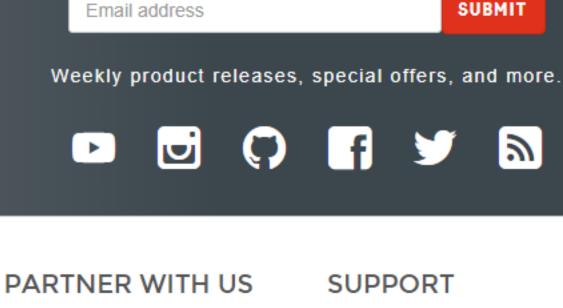
serial via the register interface.

download ;-)

I don't think there is a faster way to learn about FPGA's ★★★★☆ Happy Alchitry Au user

about 2 years ago by Member #1642604

✓ verified purchaser



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SparkFun Electronics ® / 6333 Dry Creek Parkway, Niwot, Colorado 80503

Apply for a Hardware Donation

about 2 years ago by Member #1657863

✓ verified purchaser Very Good tool, good price, good quality, easy to use (if you already know something about FPGA), you can easily embed it to you design. \star \star \star \star Love the board so far about a year ago by Member #1717144

✓ verified purchaser I'm teaching an intro to arduino course with a couple of kiddos who were already quite proficient. I set them up with Alchitry AU board and showed them where to get software. They've blown me away already with what they've been able to do as they just learn the basics. Relatively low floor, incredibly high ceiling!

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