Alchitry Au

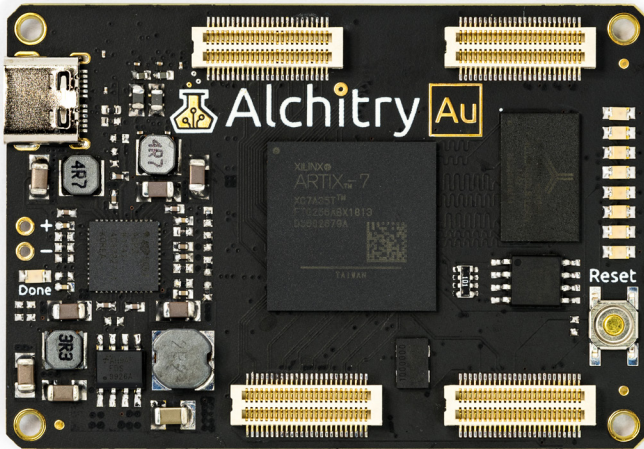## Product Brief

Overview

The Alchitry Au is our most powerful FPGA development board to date! It features a Xilinx Artix 7 FPGA which is supported by Vivado, Xilinx's latest design tools.

This board is a fantastic starting point into the world of FPGAs and the heart of your next project.

Features

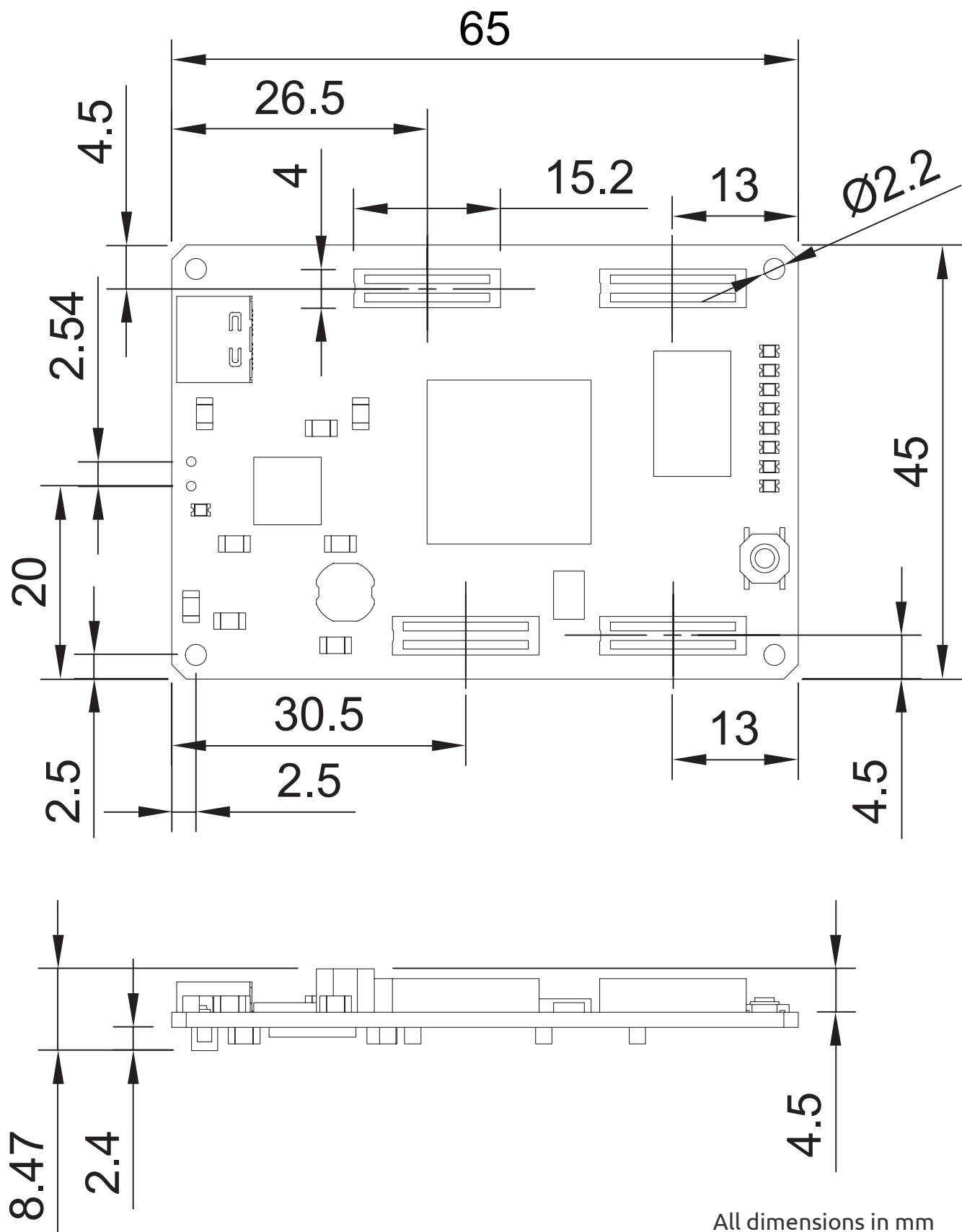|	
FPGA	Xilinx Artix 7 XC7A35T-1C
Memory	256MB DDR3 connected via a 16bit interface (approx. 10Gbit/s)
IO	102 pins at 3.3V 20 of these can be switched to 1.8V for LVDS 9 differential analog inputs (1 dedicated, 8 shared with digital IO)
Board Peripherals	8 general purpose LEDs 1 general purpose button (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	JTAG programming over USB C port via FT2232H
Power Options	5V through USB C port, 0.1" holes, or SMT headers
Power Regulation	3.3V @ 3.5A - used for on-board peripherals and IO 1.8V @ 1.2A - used by FPGA VAUX and LVDS IO 1.8V @ 200mA - used for analog circuits 1.35V @ 1.2A - used by DDR3 1V @ 2.2A - used by FPGA internal logic
Dimensions	65mm x 45mm
Operating Temperature	0-60°C

Physical Dimensions

65

26.5

4.5

4

15.2

13

Ø2.2

2.54

45

20

30.5

2.5

2.5

13

4.5

8.47

2.4

4.5

All dimensions in mm