RPi3B+ vs FPGA

Specification

- Arty A7-35T $99.00 When I purchased.

- $129.00 Arty A7-35T $249.00 Arty A7-100T

- Logic Cells 32,280 101,440

- Block RAM (Kbits) 1,800   4,860

- Price $35.00

- 1.4GHz 64-bit quad-core processor

- wireless LAN, Bluetooth 4.2

- micro SD card

- Full-size HDMI

Specification

- 256MB DDR3L with a 16-bit bus @ 667MHz

- 10/100 Mbps Ethernet

- Verilog or VHDL

- Requires Xilinx software to create bit file.

- 1GB LPDDR2 SDRAM

- 4 USB 2.0 ports

- Gigabit Ethernet over USB 2.0 (maximum throughput 300 Mbps)

- Micro SD port

Specification

- 4 PMOD I/O

- Arduino™ R3 Headers

- CSI camera port for connecting a Raspberry Pi camera

- DSI display port for connecting a Raspberry Pi touchscreen display

- Size 85mm x 45mm 3.34646in x 1.77165in