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PYNQ-Z2 Development Board

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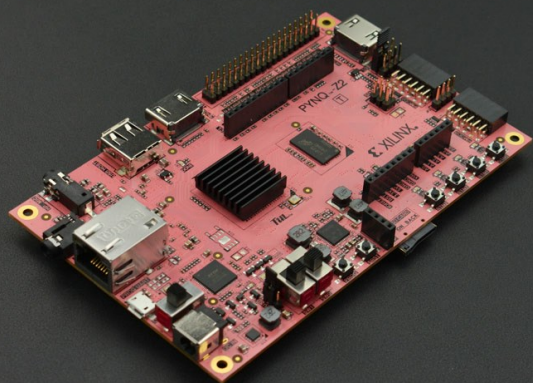
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INTRODUCTION

PYNQ-Z2 is a FPGA development board based on ZYNQ XC7Z020 FPGA, intensively designed to support PYNQ, a new open-sources framework that enables embedded programmers to explore the possibilities of xilinx ZYNQ SoCs without having to design programming logic circuits. Benefiting from programmable logic and advanced ARM processor in ZYNQ, designers can build up more powerful embedded systems with it. Besides, the SoCs can be programmed in Python and the code can be developed and tested directly on the PYNQ-Z2. The programmable logic circuits are imported as hardware libraries and programmed through APIs in basically the same way that the software libraries are imported and programmed. PYNQ-Z2 board integrates Ethernet, HDMI Input/Output, MIC Input, Audio Output, Arduino interface, Raspberry Pi interface, 2 Pmod, user LED, push-button and switch. It is designed to be easily extensible with Pmod, Arduino, and peripherals, as well as general purpose GPIO pins.

What is PYNQ? PYNQ (Python On Zynq) is an open-source project from Xilinx® that makes it easy to design embedded systems with Xilinx Zynq® Systems on Chips (SoCs). Using the Python language and libraries, designers can exploit the benefits of programmable logic and microprocessors in Zynq to build more capable and exciting embedded systems. PYNQ users can now create high performance embedded applications with: parallel hardware execution, high frame-rate video processing, hardware accelerated algorithms, real-time signal processing, high bandwidth IO, low latency control. PYNQ utilizes the best advantages of ZYNQ and Python. It has been widely used for machine learning research and prototyping. Use this board with our DF Arduino or Raspberry Pi expansion shield, ultimate possibilities waiting for you!

PYNQ-Z2 Development Board

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SPECIFICATION

- Outline Dimension: 87mm*138mm/3.43"*5.43"
- ZYNQ XC7Z020-1CLG400C Board:
- 650MHz dual-core Cortex-A9 processor
- DDR3 memory controller with 8 DMA channels and 4 High-Performance AXI3 Slave ports
- High-bandwidth peripheral controllers: 1G Ethernet, USB 2.0, SDIO
- Low-bandwidth peripheral controller: SPI, UART, CAN, I2C
- Programmable from JTAG, Quad-SPI flash, and MicroSD card
- Programmable logic equivalent to Artix-7 FPGA
- 13,300 logic slices, each with four 6-input LUTs and 8 flip-flops
- 630 KB of fast block RAM
- 4 clock management tiles, each with a phase locked loop (PLL) and mixed-mode clock manager (MMCM)
- 220 DSP slices
- On-chip analog-to-digital converter (XADC)
 - Memory:
- 512MB DDR3 with 16-bit bus @ 1050Mbps
- 16MB Quad-SPI Flash with factory programmed 48-bit globally unique EUI-48/64™ compatible identifier
- MicroSD slot
 - Power:
- Powered from USB or 7V-15V external power source
 - USB and Ethernet:
- Gigabit Ethernet PHY
- Micro USB-JTAG Programming circuitry
- Micro USB-UART bridge
- USB OTG PHY (supports host only)
 - Audio and Video:
- HDMI sink port (input)
- HDMI source port (output)
- I2S interface with 24bit DAC with 3.5mm TRRS jack
- Line-in with 3.5mm jack
 - Switches, Push-buttons, and LEDs:
- 4 push-buttons
- 2 slide switches
- 4 LEDs
- 2 RGB LEDs
 - Expansion Connectors:
- Two standard Pmod ports
- 16 Total FPGA I/O (8 shared pins with Raspberry Pi connector)
- Arduino Shield connector
- 24 Total FPGA I/O
- 6 Single-ended 0-3.3V Analog inputs to XADC
- Raspberry Pi connector
- 28 Total FPGA I/O (8 shared pins with Pmod A port)

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