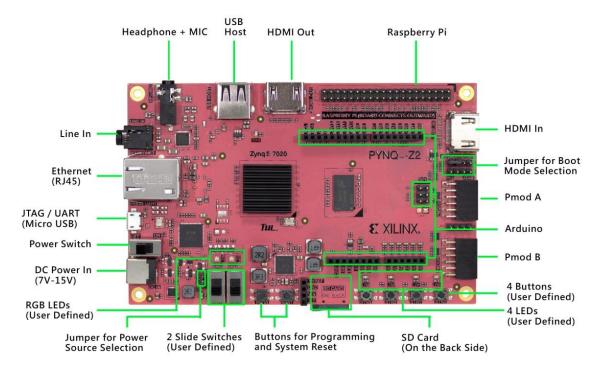




Introducing TUL PYNQ_™-Z2 Basic kit



ZYNQ XC7Z020-1CLG400C

- 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 phaselocked 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 48bit 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 2.0 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)







TUL PYNQ™-Z2 Basic kit

Product Specification	
Part number	1M1-M000127DVB
EAN Code:	TUL PYNQ-Z2 Basic Kit 4713436170853
Processor:	Dual-Core ARM Cortex-A9
FPGA:	1.3M reconfigurable gates
Memory:	512MB DDR3 / 128Mbit FLASH
Storage:	Micro SD card slot
Video:	HDMI In / HDMI Out
Audio:	HP+Mic, Line in, ADAU1761 AUDIO codec
Network:	10/100/1000 Ethernet
Expansion:	USB Host connected to ARM PS
Interfaces GPIO:	Arduino Header, Raspberry Pi, Pmods x2
Other I/O:	6x User LEDs, 4x Pushbuttons, 2x Switches
Dimensions:	87mm x 140mm
Accessories	
1	Micro SD card 8G (image preload)
2	AC/DC adapter
3	USB type-A to Micro USB Cable
4	Ethernet cable



Photos of Product



