

Comparison table for Basys 2 and Basys 3

	Basys 3	Basys 2
FPGA Family	Artix (XC7A35T)	Spartan (XC3S100E)
FPGA resources	33,280 logic cells 90 DSP slices 1800Kb BRAM	2,160 logic cells 0 DSP (4 multipliers) 72Kb BRAM
Works with Vivado	✓	✗
On-board USB programming	✓	✓
USB powered	✓	✓
On-board configuration ROM	✓	✓
USB-HID port for mouse and keyboard	✓	✗
PS-2 port	✗	✓
USB thumb drive for FPGA config and user data	✓	✗
USB COM port with Windows and Linux drivers	✓	✗
7-segment display	✓	✓
VGA port	16-bit, hi-res	8-bit, med. res
Slide switches	16	8
LEDs	16	8
Push buttons	6	4
Pmods ports	Four double	Four single
Analog inputs	4	0
Power switch and power good LED	✓	✗
FPGA reset button and DONE LED	✓	✗

