

Digilent Basys™ Board

Xilinx Spartan-3E Development Platform

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www.digilentinc.com

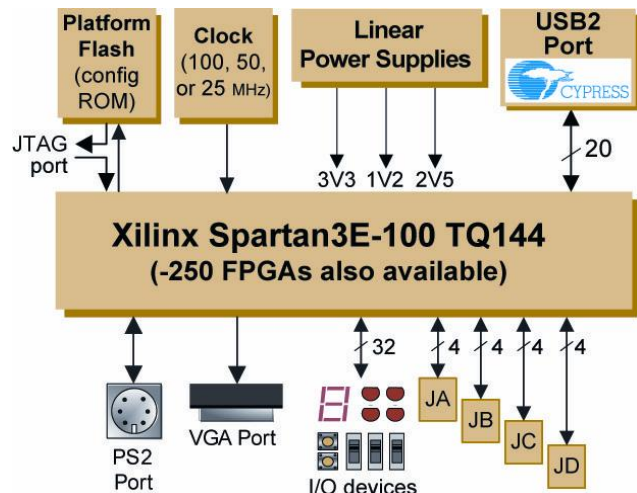
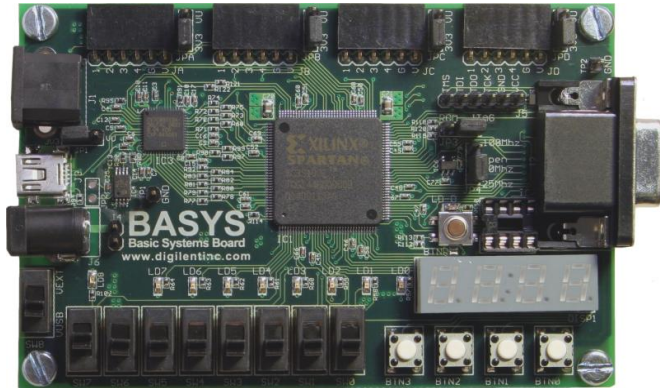
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The Digilent Basys board is a powerful circuit design platform for anyone who wants to learn about FPGAs and/or digital design. It combines the advanced features of Xilinx's Spartan-3E FPGA with a USB2 port, power supplies, a clock source and useful I/O circuits. The combination of features and low cost make the Basys board an ideal platform for designs ranging from simple logic circuits to complex digital systems.

The USB2 port powers the board, provides a configuration port for the FPGA and platform Flash, and allows high-speed data transfers with a PC. When paired with a notebook computer, the Basys board can be used to implement real circuits anytime, anywhere.

The four on-board 6-pin expansion connectors are compatible with Digilent's low-cost Pmod accessory circuits, making it easy to add A/D and D/A converters, motors, sensors, and a variety of other devices and circuits. All signals are ESD and short-circuit protected, ensuring a long operating life in any environment.

The Basys board is fully compatible with all versions of the Xilinx ISE tools, including the free WebPack. It ships with a USB cable, so designs can be implemented immediately with no hidden costs. Now every student can have a state-of-the-art development system for less than the cost of a textbook!



Features

- 100K-gate Xilinx Spartan3-E that features four 18-bit multipliers, 72Kbits of fast dual-port block RAM, and 500MHz+ operation
- USB2 port providing board power and a programming port (cable included)
- XCF02S Platform Flash ROM that stores FPGA configurations indefinitely
- user-settable oscillator frequency (25, 50, and 100MHz), plus a socket for a second oscillator
- three on-board voltage regulators (1.2V, 2.5V, and 3.3V)
- eight LEDs, four-digit seven-segment display, four pushbuttons, eight slide switches, PS/2 port, and 8-bit VGA port
- four 6-pin headers for user I/Os, and for attaching Digilent breadboard or Pmod accessory circuit boards (see www.digilent.com for more information on available accessory boards)
- ships in a convenient plastic carry case (together with USB cable)