



**DIGILENT**<sup>®</sup>  
BEYOND THEORY

**NEXYS 2**<sup>™</sup>

## Advanced digital design for less than the price of a textbook



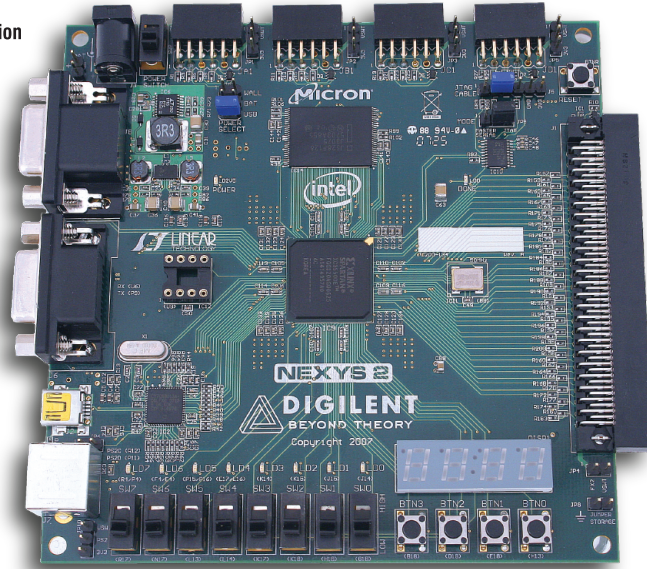
FPGA-powered education  
supported by:



Power supplies by:  
**LINEAR**  
TECHNOLOGY

CellularRAM by:  
**Micron**

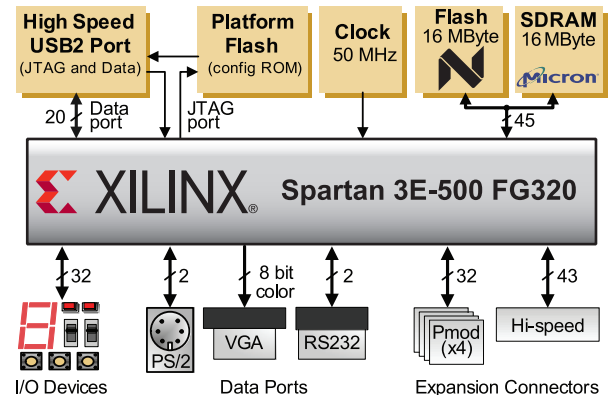
StrataFlash™ by:  
**numonyx**<sup>™</sup>



- Xilinx Spartan-3E, 500K or 1200K gate
- USB2 port providing board power, device configuration, and high-speed data transfers
- Works with ISE/Webpack and EDK
- 16MB fast Micron PSDRAM
- 16MB Intel StrataFlash Flash Ram
- Xilinx Platform Flash ROM
- High-efficiency switching power supplies (good for battery-powered applications)
- 50MHz oscillator, plus a socket for a second oscillator
- 59 FPGA I/O's routed to expansion connectors (one high-speed Hirose FX2 connector with 21 differential pairs and four 6-pin headers)
- All I/O signals are ESD and short-circuit protected, ensuring a long operating life in any environment.
- On-board I/O includes eight LEDs, four-digit seven-segment display, four pushbuttons, eight slide switches
- Ships in a DVD case with a high-speed USB2 cable

The Nexys-2 board is a reliable all-in-one circuit development platform for engineers at every level. Featuring a large Xilinx Spartan-3E FPGA, a high-speed USB2 port, 16MB of RAM, 16MB of Flash ROM, switching power supplies, and a collection of ports and I/O devices, the Nexys-2 board makes an ideal platform for projects ranging from simple logic circuits to complex processors and controllers. All I/O signals are ESD and short-circuit protected, ensuring a long operating life in any environment.

The Nexys-2 is fully compatible with all versions of the Xilinx ISE CAD tools, including EDK and the free WebPack. When used with EDK, the Nexys-2 makes an ideal host for Xilinx's MicroBlaze processor running MicroC Linux.



The on-board USB2 port provides power for the board, configures the FPGA and platform Flash, and allows high-speed data transfers with a PC. When driven from a notebook computer with the included USB2 cable, the Nexys-2 board can be used to build real circuits anytime, anywhere. Now everyone can own a powerful, state-of-the-art development system for less than the cost of a textbook!

[www.digilentinc.com](http://www.digilentinc.com)