Atlys Spartan-6 FPGA Trainer Board

Product Description

The Atlys circuit board is a complete, ready-to-use digital circuit development platform based on a Xilinx Spartan 6 LX45 FPGA. The on-board collection of high-end peripherals, including Gbit Ethernet, HDMI Video, 128Mbyte DDR2 memory array, audio and USB ports make the Atlys board an ideal host for complete digital systems built around embedded processors like Xilinx's MicroBlaze. Atlys is fully compatible with all Xilinx CAD tools, including ChipScope, EDK, and the free WebPack, so designs can be completed with no extra costs.

The Atlys board can be communicated with and programmed by the Digilent Adept software. In addition, the board can be programmed by Xilinx's iMPACT using the Digilent Plugin for Xilinx Tools.

Key Features & Benefits

- 10/100/1000 Ethernet PHY
- 100MHz CMOS oscillator
- 128Mbyte DDR2 16-bit wide data
- 16Mbyte x4 SPI Flash for configuration & data storage
- 48 I/O's routed to expansion connectors
- AC-97 Codec with line-in, line-out, mic, & headphone
- GPIO includes 8 LEDs, 6 buttons, & 8 slide switches
- On-board USB2 ports for programming & data transfer
- Real time power monitors on all power rails
- Two HDMI video input ports & two HDMI output ports
- USB-UART and USB-HID port (for mouse/keyboard
- Xilinx Spartan-6 LX45 FPGA, 324-pin BGA package

What's Included

- A 20W power supply
- A USB cable
- Rugged plastic case
- Spartan 6 FPGA board