

Digilab XLA

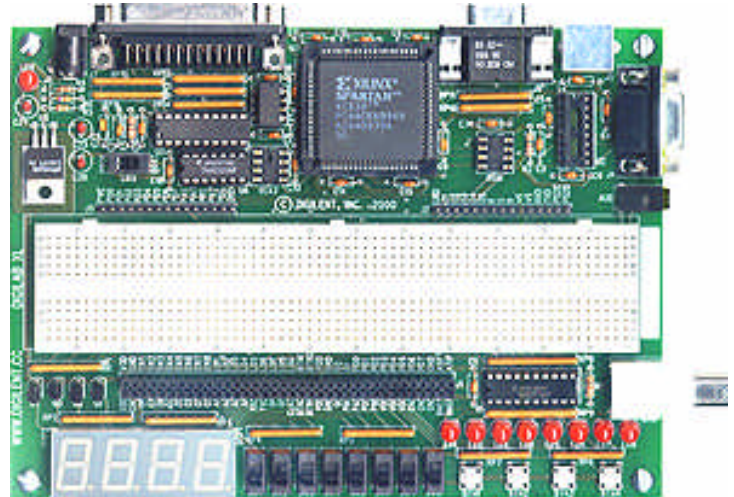
FPGA Development Board



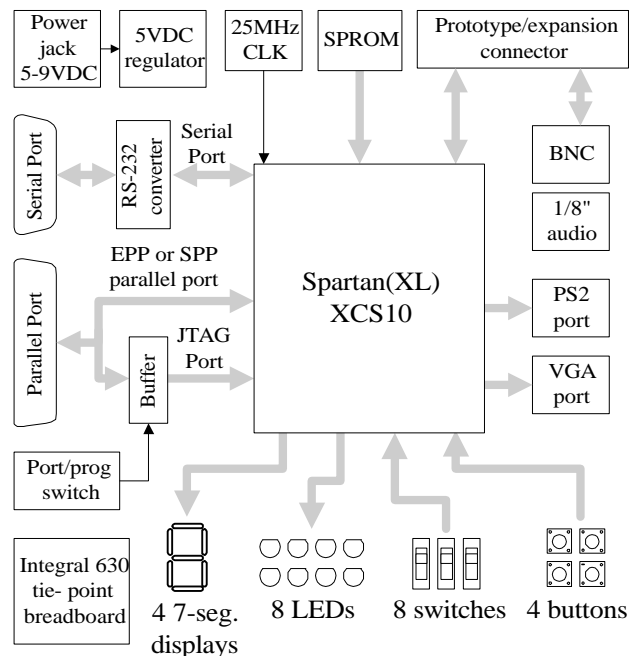
The Digilab XLA FPGA-based development board makes an excellent prototyping platform for entry level to moderately complex digital circuits. The XLA board provides an “all-in-one” platform that contains everything needed to implement a wide variety of circuits, making it the perfect choice for those encountering digital circuits, FPGAs and/or CAD tools for the first time. The board features a 10K-gate Xilinx Spartan FPGA, plenty of I/O devices, and several data ports. FPGA signals are routed to the on-board devices and ports and to a prototype/expansion connector. The prototype connector can be used with the integral solderless breadboard to create accessory circuits on the XLA board using only jumper wires. The XLA board works seamlessly with the Xilinx Foundation and Student Edition tools, and it ships with a parallel cable and power supply, so projects can be implemented immediately without the need for any other components or expenses.

XLA board features include:

- A Xilinx XCS10 or XCS10XL FPGA in a PLCC84 package offering 69 user I/Os;
- On-board 1.5A power regulator (3.3V for XLA3, and 5.0V for XLA5);
- A socketed 25MHz oscillator;
- A socket for a Xilinx SPROM;
- EPP-capable parallel port for FPGA programming and user data transfers;
- 8 LEDs, 8 slide switches, 4 pushbuttons, and a 4-digit LED display for circuit I/O's;
- PS/2 mouse/keyboard, RS-232 serial, and 3-bit color VGA ports;
- Prototype/expansion connector for easy access to FPGA and I/O signals;
- BNC and audio connectors for use with breadboard circuits.



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XLA Block Diagram

For more information, please see the Digilab XLA reference documents available at our website.