

Digilent DIO5 System Board

Ready-made I/O for Digilent boards featuring the Xilinx CoolRunner CPLD



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The DIO5 Digital I/O board provides a ready-made source for many of the most common I/O devices and ports found in digital systems. It can be used with the D2SB or D2FT boards to create a platform that can host a wide range of projects. Because it contains a large CPLD to coordinate the various on-board I/O devices, it can also be used to partition designs across the CPLD and an FPGA on an attached system board. Using the DIO5, designs such as a full-function calculator, a complete computer, a simple video game controller, or countless other systems can readily be created.

FEATURES AND BENEFITS

- An XCR3128 CPLD for I/O device and system bus control (the CPLD is automatically inserted in the JTAG scan chain when the DIO5 is attached to any system board)
- A 16x2 character LCD
- A 4-digit seven segment display
- 16 individual LEDs in three different colors
- A 16 button keypad
- 8 slide switches
- 3-bit VGA port
- PS/2 mouse or keyboard port

APPLICATIONS

- I/O devices can be used to create a complete computer system around MicroBlaze
- Any circuit where general-purpose I/O devices are needed
- Can be used with a system board to partition designs across two programmable devices

