FLEX 10K Device

The UP2 Education Board provides the following resources for the FLEX 10K device. The pins from the FLEX 10K device are pre-assigned to switches and LEDs on the board.

■ JTAG chain connection for the ByteBlaster II cable
■ Socket for an EPC1 configuration device
■ Two momentary push button switches
■ One octal DIP switch
■ Dual-digit seven-segment display
■ On-board oscillator (25.175 MHz)
■ VGA port
■ Mouse port
■ Three expansion ports, each with 42 I/O pins and seven global pins

FLEX_PB1 & FLEX_PB2 Push Buttons

FLEX_PB1 and FLEX_PB2 are two push buttons that provide active-low signals to two general-purpose I/O pins on the FLEX 10K device. FLEX_PB1 connects to pin 28, and FLEX_PB2 connects to pin 29. Each push button is pulled-up through a 10-KΩ resistor.

FLEX_SW1 Switches

FLEX_SW1 contains eight switches that provide logic-level signals to eight general-purpose I/O pins on the FLEX 10K device. An input pin is set to logic 1 when the switch is open and set to logic 0 when the switch is closed. Table 6 lists the pin assignment for each switch.

Table 6. FLEX_SW1 Pin Assignments	
Switch	**FLEX 10K Pin**
FLEX_SWITCH-1	41
FLEX_SWITCH-2	40
FLEX_SWITCH-3	39
FLEX_SWITCH-4	38
FLEX_SWITCH-5	36
FLEX_SWITCH-6	35
FLEX_SWITCH-7	34
FLEX_SWITCH-8	33