

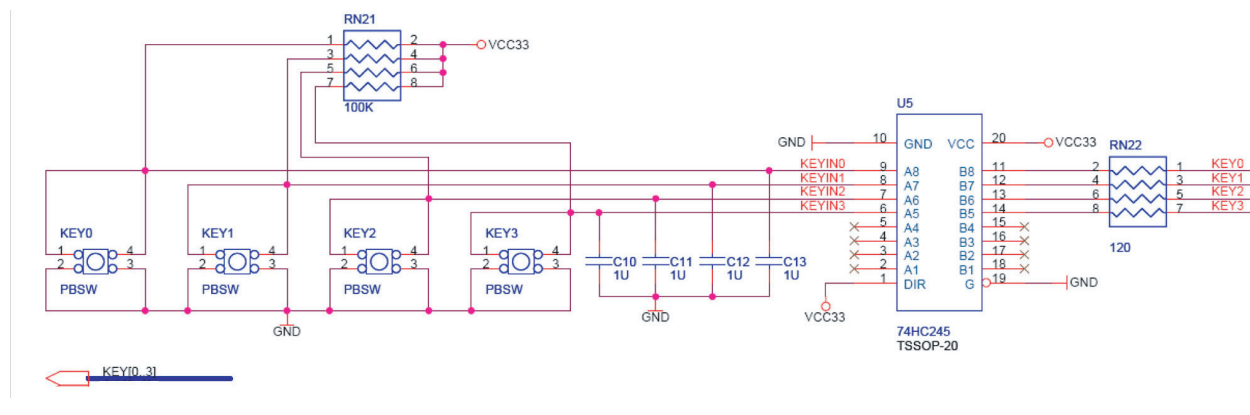
The switches connect to an FPGA general-purpose I/O pin with a pull-up resistor through the Schmitt Trigger outputs, **KEY0**, ..., **KEY3**. Each I/O pin senses a logic level 0 when the corresponding switch is pressed.

The debounced outputs enable users to use the push buttons as clock or reset inputs for a circuit.

Push Button Switch Schematic

Figure 2–12 shows a schematic diagram of the push button switches.

Figure 2–12. Push Button Switch Schematic Diagram



Push Button Switch Pin List

Table 2–10 lists the FPGA pins assigned to the push button switches.

Table 2–10. Push Button Switch FPGA Pin Connections		
Switch	FPGA Pin	Description
KEY[0]	PIN_R22	Pushbutton[0]
KEY[1]	PIN_R21	Pushbutton[1]
KEY[2]	PIN_T22	Pushbutton[2]
KEY[3]	PIN_T21	Pushbutton[3]

Toggle Switches

The development board provides ten sliding toggle switches, **SW0–SW9**, located at the bottom left on the development board below the red LEDs, **LEDR0–LEDR9** (Figure 2–13). Not debounced, these switches provide level-sensitive data inputs to a circuit. Each switch