

## ■ User-Defined Slide Switch

There are ten slide switches connected to FPGA on the board (See [Figure 3-15](#)). These switches are used as level-sensitive data inputs to a circuit. Each switch is connected directly and individually to a pin on the MAX 10 FPGA. When the switch is in the DOWN position (closest to the edge of the board), it provides a low logic level to the FPGA, and when the switch is in the UP position it provides a high logic level. [Table 3-4](#) list the pin assignments of the user switches.



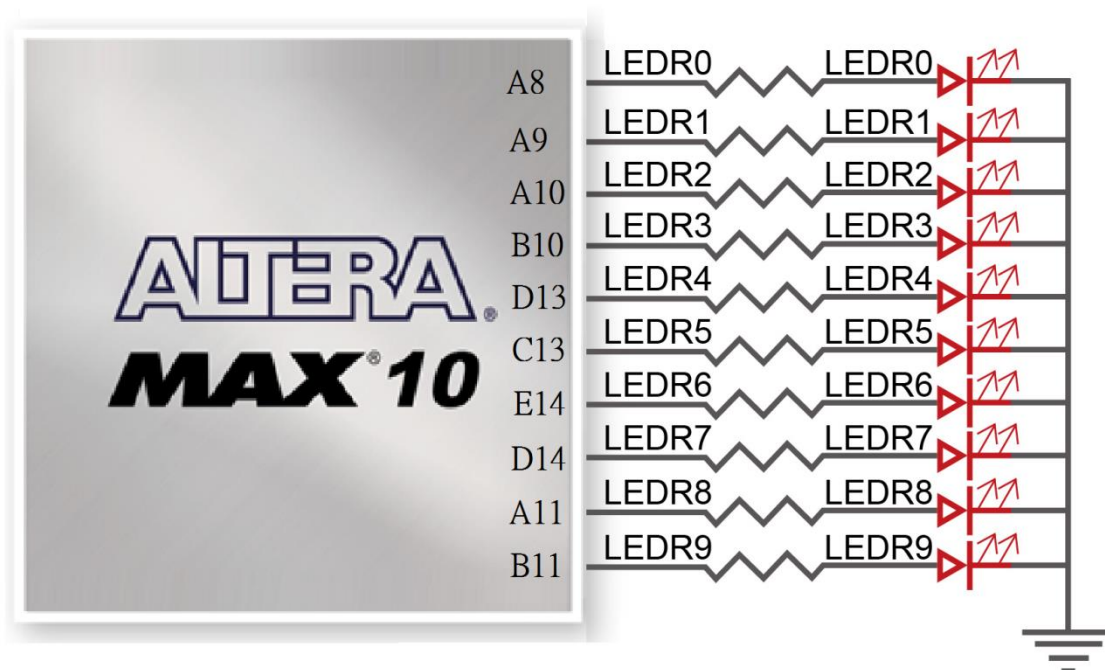
**Figure 3-15 Connections between the slide switches and MAX 10 FPGA**

**Table 3-4 Pin Assignment of Slide Switches**

Signal Name	FPGA Pin No.	Description	I/O Standard
SW0	PIN_C10	Slide Switch[0]	3.3-V LVTTL
SW1	PIN_C11	Slide Switch[1]	3.3-V LVTTL
SW2	PIN_D12	Slide Switch[2]	3.3-V LVTTL
SW3	PIN_C12	Slide Switch[3]	3.3-V LVTTL
SW4	PIN_A12	Slide Switch[4]	3.3-V LVTTL
SW5	PIN_B12	Slide Switch[5]	3.3-V LVTTL
SW6	PIN_A13	Slide Switch[6]	3.3-V LVTTL
SW7	PIN_A14	Slide Switch[7]	3.3-V LVTTL
SW8	PIN_B14	Slide Switch[8]	3.3-V LVTTL
SW9	PIN_F15	Slide Switch[9]	3.3-V LVTTL

## ■ User-Defined LEDs

There are also ten user-controllable LEDs connected to FPGA on the board. Each LED is driven directly and individually by a pin on the MAX 10 FPGA; driving its associated pin to a high logic level turns the LED on, and driving the pin low turns it off. **Figure 3-16** shows the connections between LEDs and MAX 10 FPGA. **Table 3-5** list the pin assignment of user LEDs.



**Figure 3-16** Connections between the LEDs and MAX 10 FPGA

**Table 3-5** Pin Assignment of LEDs

Signal Name	FPGA Pin No.	Description	I/O Standard
LEDR0	PIN_A8	LED [0]	3.3-V LVTTTL
LEDR1	PIN_A9	LED [1]	3.3-V LVTTTL
LEDR2	PIN_A10	LED [2]	3.3-V LVTTTL
LEDR3	PIN_B10	LED [3]	3.3-V LVTTTL
LEDR4	PIN_D13	LED [4]	3.3-V LVTTTL
LEDR5	PIN_C13	LED [5]	3.3-V LVTTTL
LEDR6	PIN_E14	LED [6]	3.3-V LVTTTL
LEDR7	PIN_D14	LED [7]	3.3-V LVTTTL
LEDR8	PIN_A11	LED [8]	3.3-V LVTTTL
LEDR9	PIN_B11	LED [9]	3.3-V LVTTTL