

Signal Name	FPGA Pin No.	Description
SW[0]	PIN_AA23	Toggle Switch[0]
SW[1]	PIN_AB26	Toggle Switch[1]
SW[2]	PIN_AB25	Toggle Switch[2]
SW[3]	PIN_AC27	Toggle Switch[3]
SW[4]	PIN_AC26	Toggle Switch[4]
SW[5]	PIN_AC24	Toggle Switch[5]
SW[6]	PIN_AC23	Toggle Switch[6]
SW[7]	PIN_AD25	Toggle Switch[7]
SW[8]	PIN_AD24	Toggle Switch[8]
SW[9]	PIN_AE27	Toggle Switch[9]
SW[10]	PIN_W5	Toggle Switch[10]
SW[11]	PIN_V10	Toggle Switch[11]
SW[12]	PIN_U9	Toggle Switch[12]
SW[13]	PIN_T9	Toggle Switch[13]
SW[14]	PIN_L5	Toggle Switch[14]
SW[15]	PIN_L4	Toggle Switch[15]
SW[16]	PIN_L7	Toggle Switch[16]
SW[17]	PIN_L8	Toggle Switch[17]

Table 5.1. Pin assignments for the toggle switches.

Signal Name	FPGA Pin No.	Description
KEY[0]	PIN_T29	Pushbutton[0]
KEY[1]	PIN_T28	Pushbutton[1]
KEY[2]	PIN_U30	Pushbutton[2]
KEY[3]	PIN_U29	Pushbutton[3]

Table 5.2. Pin assignments for the pushbutton switches.

Signal Name	FPGA Pin No.	Description
LEDR[0]	PIN_AJ6	LED Red[0]
LEDR[1]	PIN_AK5	LED Red[1]
LEDR[2]	PIN_AJ5	LED Red[2]
LEDR[3]	PIN_AJ4	LED Red[3]
LEDR[4]	PIN_AK3	LED Red[4]
LEDR[5]	PIN_AH4	LED Red[5]
LEDR[6]	PIN_AJ3	LED Red[6]
LEDR[7]	PIN_AJ2	LED Red[7]
LEDR[8]	PIN_AH3	LED Red[8]
LEDR[9]	PIN_AD14	LED Red[9]
LEDR[10]	PIN_AC13	LED Red[10]
LEDR[11]	PIN_AB13	LED Red[11]
LEDR[12]	PIN_AC12	LED Red[12]
LEDR[13]	PIN_AB12	LED Red[13]
LEDR[14]	PIN_AC11	LED Red[14]
LEDR[15]	PIN_AD9	LED Red[15]
LEDR[16]	PIN_AD8	LED Red[16]
LEDR[17]	PIN_AJ7	LED Red[17]
LEDG[0]	PIN_W27	LED Green[0]
LEDG[1]	PIN_W25	LED Green[1]
LEDG[2]	PIN_W23	LED Green[2]
LEDG[3]	PIN_Y27	LED Green[3]
LEDG[4]	PIN_Y24	LED Green[4]
LEDG[5]	PIN_Y23	LED Green[5]
LEDG[6]	PIN_AA27	LED Green[6]
LEDG[7]	PIN_AA24	LED Green[7]
LEDG[8]	PIN_AC14	LED Green[8]

Table 5.3. Pin assignments for the LEDs.

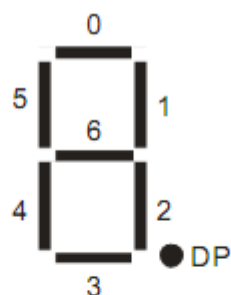


Figure 5.7. Position and index of each segment in a 7-segment display.

Signal Name	FPGA Pin No.	Description
HEX0_D[0]	PIN_AE8	Seven Segment Digit 0[0]
HEX0_D[1]	PIN_AF9	Seven Segment Digit 0[1]
HEX0_D[2]	PIN_AH9	Seven Segment Digit 0[2]
HEX0_D[3]	PIN_AD10	Seven Segment Digit 0[3]
HEX0_D[4]	PIN_AF10	Seven Segment Digit 0[4]
HEX0_D[5]	PIN_AD11	Seven Segment Digit 0[5]
HEX0_D[6]	PIN_AD12	Seven Segment Digit 0[6]
HEX0_DP	PIN_AF12	Seven Segment Decimal Point 0
HEX1_D[0]	PIN_AG13	Seven Segment Digit 1[0]
HEX1_D[1]	PIN_AE16	Seven Segment Digit 1[1]
HEX1_D[2]	PIN_AF16	Seven Segment Digit 1[2]
HEX1_D[3]	PIN_AG16	Seven Segment Digit 1[3]
HEX1_D[4]	PIN_AE17	Seven Segment Digit 1[4]
HEX1_D[5]	PIN_AF17	Seven Segment Digit 1[5]
HEX1_D[6]	PIN_AD17	Seven Segment Digit 1[6]
HEX1_DP	PIN_AC17	Seven Segment Decimal Point 1
HEX2_D[0]	PIN_AE7	Seven Segment Digit 2[0]
HEX2_D[1]	PIN_AF7	Seven Segment Digit 2[1]
HEX2_D[2]	PIN_AH5	Seven Segment Digit 2[2]
HEX2_D[3]	PIN_AG4	Seven Segment Digit 2[3]
HEX2_D[4]	PIN_AB18	Seven Segment Digit 2[4]
HEX2_D[5]	PIN_AB19	Seven Segment Digit 2[5]
HEX2_D[6]	PIN_AE19	Seven Segment Digit 2[6]

HEX2_DP	PIN_AC19	Seven Segment Decimal Point 2
HEX3_D[0]	PIN_P6	Seven Segment Digit 3[0]
HEX3_D[1]	PIN_P4	Seven Segment Digit 3[1]
HEX3_D[2]	PIN_N10	Seven Segment Digit 3[2]
HEX3_D[3]	PIN_N7	Seven Segment Digit 3[3]
HEX3_D[4]	PIN_M8	Seven Segment Digit 3[4]
HEX3_D[5]	PIN_M7	Seven Segment Digit 3[5]
HEX3_D[6]	PIN_M6	Seven Segment Digit 3[6]
HEX3_DP	PIN_M4	Seven Segment Decimal Point 3
HEX4_D[0]	PIN_P1	Seven Segment Digit 4[0]
HEX4_D[1]	PIN_P2	Seven Segment Digit 4[1]
HEX4_D[2]	PIN_P3	Seven Segment Digit 4[2]
HEX4_D[3]	PIN_N2	Seven Segment Digit 4[3]
HEX4_D[4]	PIN_N3	Seven Segment Digit 4[4]
HEX4_D[5]	PIN_M1	Seven Segment Digit 4[5]
HEX4_D[6]	PIN_M2	Seven Segment Digit 4[6]
HEX4_DP	PIN_L6	Seven Segment Decimal Point 4