DE1 Pin Out

**Pin assignments for the toggle switches.**

SW[0] PIN\_L22 Toggle Switch[0]

SW[1] PIN\_L21 Toggle Switch[1]

SW[2] PIN\_M22 Toggle Switch[2]

SW[3] PIN\_V12 Toggle Switch[3]

SW[4] PIN\_W12 Toggle Switch[4]

SW[5] PIN\_U12 Toggle Switch[5]

SW[6] PIN\_U11 Toggle Switch[6]

SW[7] PIN\_M2 Toggle Switch[7]

SW[8] PIN\_M1 Toggle Switch[8]

SW[9] PIN\_L2 Toggle Switch[9]

**Pin assignments for the pushbutton switches.**

KEY[0] PIN\_R22 Pushbutton[0]

KEY[1] PIN\_R21 Pushbutton[1]

KEY[2] PIN\_T22 Pushbutton[2]

KEY[3] PIN\_T21 Pushbutton[3]

**Pin assignments for the LEDs.**

LEDR[0] PIN\_R20 LED Red[0]

LEDR[1] PIN\_R19 LED Red[1]

LEDR[2] PIN\_U19 LED Red[2]

LEDR[3] PIN\_Y19 LED Red[3]

LEDR[4] PIN\_T18 LED Red[4]

LEDR[5] PIN\_V19 LED Red[5]

LEDR[6] PIN\_Y18 LED Red[6]

LEDR[7] PIN\_U18 LED Red[7]

LEDR[8] PIN\_R18 LED Red[8]

LEDR[9] PIN\_R17 LED Red[9]

LEDG[0] PIN\_U22 LED Green[0]

LEDG[1] PIN\_U21 LED Green[1]

LEDG[2] PIN\_V22 LED Green[2]

LEDG[3] PIN\_V21 LED Green[3]

LEDG[4] PIN\_W22 LED Green[4]

LEDG[5] PIN\_W21 LED Green[5]

LEDG[6] PIN\_Y22 LED Green[6]

LEDG[7] PIN\_Y21 LED Green[7]

**Pin assignments for the 7-segment displays on DE1.**

HEX0[0] PIN\_J2 Seven Segment Digit 0[0]

HEX0[1] PIN\_J1 Seven Segment Digit 0[1]

HEX0[2] PIN\_H2 Seven Segment Digit 0[2]

HEX0[3] PIN\_H1 Seven Segment Digit 0[3]

HEX0[4] PIN\_F2 Seven Segment Digit 0[4]

HEX0[5] PIN\_F1 Seven Segment Digit 0[5]

HEX0[6] PIN\_E2 Seven Segment Digit 0[6]

HEX1[0] PIN\_E1 Seven Segment Digit 1[0]

HEX1[1] PIN\_H6 Seven Segment Digit 1[1]

HEX1[2] PIN\_H5 Seven Segment Digit 1[2]

HEX1[3] PIN\_H4 Seven Segment Digit 1[3]

HEX1[4] PIN\_G3 Seven Segment Digit 1[4]

HEX1[5] PIN\_D2 Seven Segment Digit 1[5]

HEX1[6] PIN\_D1 Seven Segment Digit 1[6]

HEX2[0] PIN\_G5 Seven Segment Digit 2[0]

HEX2[1] PIN\_G6 Seven Segment Digit 2[1]

HEX2[2] PIN\_C2 Seven Segment Digit 2[2]

HEX2[3] PIN\_C1 Seven Segment Digit 2[3]

HEX2[4] PIN\_E3 Seven Segment Digit 2[4]

HEX2[5] PIN\_E4 Seven Segment Digit 2[5]

HEX2[6] PIN\_D3 Seven Segment Digit 2[6]

HEX3[0] PIN\_F4 Seven Segment Digit 3[0]

HEX3[1] PIN\_D5 Seven Segment Digit 3[1]

HEX3[2] PIN\_D6 Seven Segment Digit 3[2]

HEX3[3] PIN\_J4 Seven Segment Digit 3[3]

HEX3[4] PIN\_L8 Seven Segment Digit 3[4]

HEX3[5] PIN\_F3 Seven Segment Digit 3[5]

HEX3[6] PIN\_D4 Seven Segment Digit 3[6]

DE2 Pin Out

**Pin assignments for the toggle switches.**

SW[0] PIN\_N25 Toggle Switch[0]

SW[1] PIN\_N26 Toggle Switch[1]

SW[2] PIN\_P25 Toggle Switch[2]

SW[3] PIN\_AE14 Toggle Switch[3]

SW[4] PIN\_AF14 Toggle Switch[4]

SW[5] PIN\_AD13 Toggle Switch[5]

SW[6] PIN\_AC13 Toggle Switch[6]

SW[7] PIN\_C13 Toggle Switch[7]

SW[8] PIN\_B13 Toggle Switch[8]

SW[9] PIN\_A13 Toggle Switch[9]

SW[10] PIN\_N1 Toggle Switch[10]

SW[11] PIN\_P1 Toggle Switch[11]

SW[12] PIN\_P2 Toggle Switch[12]

SW[13] PIN\_T7 Toggle Switch[13]

SW[14] PIN\_U3 Toggle Switch[14]

SW[15] PIN\_U4 Toggle Switch[15]

SW[16] PIN\_V1 Toggle Switch[16]

SW[17] PIN\_V2 Toggle Switch[17]

**Pin assignments for the pushbutton switches.**

KEY[0] PIN\_G26 Pushbutton[0]

KEY[1] PIN\_N23 Pushbutton[1]

KEY[2] PIN\_P23 Pushbutton[2]

KEY[3] PIN\_W26 Pushbutton[3]

**Pin assignments for the LEDs.**

LEDR[0] PIN\_AE23 LED Red[0]

LEDR[1] PIN\_AF23 LED Red[1]

LEDR[2] PIN\_AB21 LED Red[2]

LEDR[3] PIN\_AC22 LED Red[3]

LEDR[4] PIN\_AD22 LED Red[4]

LEDR[5] PIN\_AD23 LED Red[5]

LEDR[6] PIN\_AD21 LED Red[6]

LEDR[7] PIN\_AC21 LED Red[7]

LEDR[8] PIN\_AA14 LED Red[8]

LEDR[9] PIN\_Y13 LED Red[9]

LEDR[10] PIN\_AA13 LED Red[10]

LEDR[11] PIN\_AC14 LED Red[11]

LEDR[12] PIN\_AD15 LED Red[12]

LEDR[13] PIN\_AE15 LED Red[13]

LEDR[14] PIN\_AF13 LED Red[14]

LEDR[15] PIN\_AE13 LED Red[15]

LEDR[16] PIN\_AE12 LED Red[16]

LEDR[17] PIN\_AD12 LED Red[17]

LEDG[0] PIN\_AE22 LED Green[0]

LEDG[1] PIN\_AF22 LED Green[1]

LEDG[2] PIN\_W19 LED Green[2]

LEDG[3] PIN\_V18 LED Green[3]

LEDG[4] PIN\_U18 LED Green[4]

LEDG[5] PIN\_U17 LED Green[5]

LEDG[6] PIN\_AA20 LED Green[6]

LEDG[7] PIN\_Y18 LED Green[7]

LEDG[8] PIN\_Y12 LED Green[8]

**Pin assignments for the 7-segment displays on DE2.**

HEX0[0] PIN\_AF10 Seven Segment Digit 0[0]

HEX0[1] PIN\_AB12 Seven Segment Digit 0[1]

HEX0[2] PIN\_AC12 Seven Segment Digit 0[2]

HEX0[3] PIN\_AD11 Seven Segment Digit 0[3]

HEX0[4] PIN\_AE11 Seven Segment Digit 0[4]

HEX0[5] PIN\_V14 Seven Segment Digit 0[5]

HEX0[6] PIN\_V13 Seven Segment Digit 0[6]

HEX1[0] PIN\_V20 Seven Segment Digit 1[0]

HEX1[1] PIN\_V21 Seven Segment Digit 1[1]

HEX1[2] PIN\_W21 Seven Segment Digit 1[2]

HEX1[3] PIN\_Y22 Seven Segment Digit 1[3]

HEX1[4] PIN\_AA24 Seven Segment Digit 1[4]

HEX1[5] PIN\_AA23 Seven Segment Digit 1[5]

HEX1[6] PIN\_AB24 Seven Segment Digit 1[6]

HEX2[0] PIN\_AB23 Seven Segment Digit 2[0]

HEX2[1] PIN\_V22 Seven Segment Digit 2[1]

HEX2[2] PIN\_AC25 Seven Segment Digit 2[2]

HEX2[3] PIN\_AC26 Seven Segment Digit 2[3]

HEX2[4] PIN\_AB26 Seven Segment Digit 2[4]

HEX2[5] PIN\_AB25 Seven Segment Digit 2[5]

HEX2[6] PIN\_Y24 Seven Segment Digit 2[6]

HEX3[0] PIN\_Y23 Seven Segment Digit 3[0]

HEX3[1] PIN\_AA25 Seven Segment Digit 3[1]

HEX3[2] PIN\_AA26 Seven Segment Digit 3[2]

HEX3[3] PIN\_Y26 Seven Segment Digit 3[3]

HEX3[4] PIN\_Y25 Seven Segment Digit 3[4]

HEX3[5] PIN\_U22 Seven Segment Digit 3[5]

HEX3[6] PIN\_W24 Seven Segment Digit 3[6]

HEX4[0] PIN\_U9 Seven Segment Digit 4[0]

HEX4[1] PIN\_U1 Seven Segment Digit 4[1]

HEX4[2] PIN\_U2 Seven Segment Digit 4[2]

HEX4[3] PIN\_T4 Seven Segment Digit 4[3]

HEX4[4] PIN\_R7 Seven Segment Digit 4[4]

HEX4[5] PIN\_R6 Seven Segment Digit 4[5]

HEX4[6] PIN\_T3 Seven Segment Digit 4[6]

HEX5[0] PIN\_T2 Seven Segment Digit 5[0]

HEX5[1] PIN\_P6 Seven Segment Digit 5[1]

HEX5[2] PIN\_P7 Seven Segment Digit 5[2]

HEX5[3] PIN\_T9 Seven Segment Digit 5[3]

HEX5[4] PIN\_R5 Seven Segment Digit 5[4]

HEX5[5] PIN\_R4 Seven Segment Digit 5[5]

HEX5[6] PIN\_R3 Seven Segment Digit 5[6]

HEX6[0] PIN\_R2 Seven Segment Digit 6[0]

HEX6[1] PIN\_P4 Seven Segment Digit 6[1]

HEX6[2] PIN\_P3 Seven Segment Digit 6[2]

HEX6[3] PIN\_M2 Seven Segment Digit 6[3]

HEX6[4] PIN\_M3 Seven Segment Digit 6[4]

HEX6[5] PIN\_M5 Seven Segment Digit 6[5]

HEX6[6] PIN\_M4 Seven Segment Digit 6[6]

HEX7[0] PIN\_L3 Seven Segment Digit 7[0]

HEX7[1] PIN\_L2 Seven Segment Digit 7[1]

HEX7[2] PIN\_L9 Seven Segment Digit 7[2]

HEX7[3] PIN\_L6 Seven Segment Digit 7[3]

HEX7[4] PIN\_L7 Seven Segment Digit 7[4]

HEX7[5] PIN\_P9 Seven Segment Digit 7[5]

HEX7[6] PIN\_N9 Seven Segment Digit 7[6]