

## Principales affectations des broches carte Terasic DE1

### Affectation des broches pour les interrupteurs (0= position basse)

Signal Name	FPGA Pin No.	Description
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]

### Affectation des broches pour les boutons poussoirs (actifs à 0)

(circuits anti-rebonds inclus)

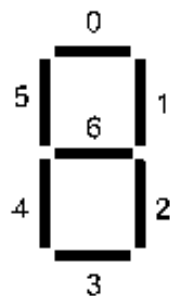
Signal Name	FPGA Pin No.	Description
KEY[0]	PIN_R22	Pushbutton[0]
KEY[1]	PIN_R21	Pushbutton[1]
KEY[2]	PIN_T22	Pushbutton[2]
KEY[3]	PIN_T21	Pushbutton[3]

## Affectation des broches pour les Leds (actives à 1)

Signal Name	FPGA Pin No.	Description
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]

## Affectation des broches pour les 4 afficheurs 7 segments

(actifs à 0)

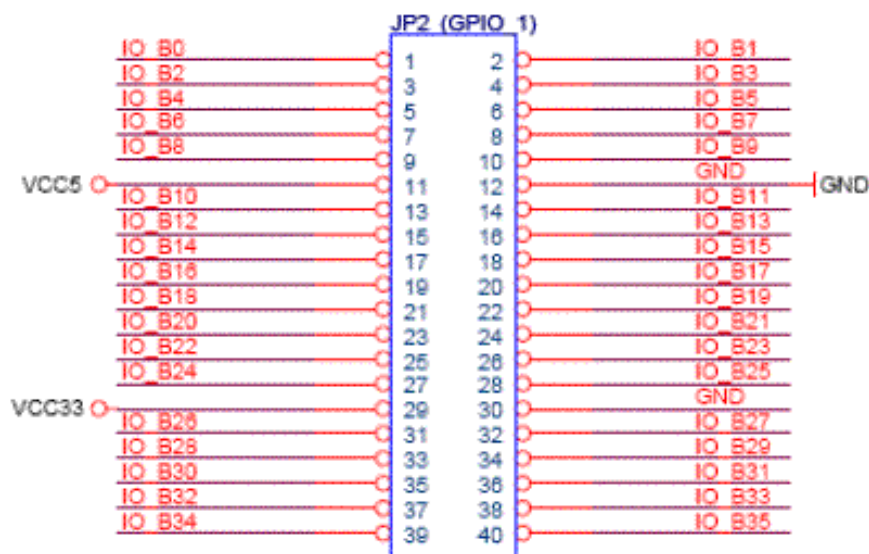
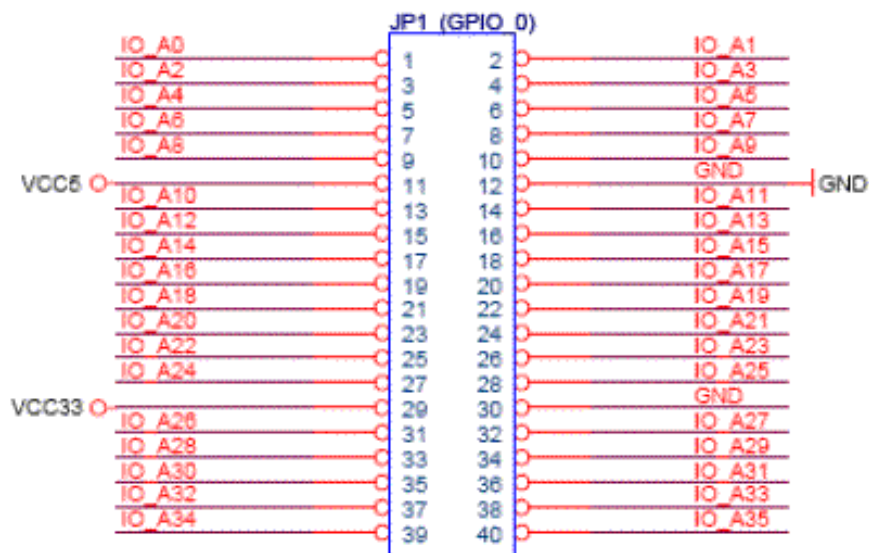


Signal Name	FPGA Pin No.	Description
HEX0[0]	PIN_J2	Seven Segment Digit 0[0]
HEX0[1]	PIN_J1	Seven Segment Digit 0[1]
HEX0[2]	PIN_H2	Seven Segment Digit 0[2]
HEX0[3]	PIN_H1	Seven Segment Digit 0[3]
HEX0[4]	PIN_F2	Seven Segment Digit 0[4]
HEX0[5]	PIN_F1	Seven Segment Digit 0[5]
HEX0[6]	PIN_E2	Seven Segment 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]

## Affectation des broches pour les horloges

Signal Name	FPGA Pin No.	Description
CLOCK_27	PIN_D12, PIN_E12	27 MHz clock input
CLOCK_50	PIN_L1	50 MHz clock input
CLOCK_24	PIN_A12, PIN_B12	24 MHz clock input from USB Blaster
EXT_CLOCK	PIN_M21	External (SMA) clock input

## Affectation des broches pour les Entrées-sorties



(connecteur 0 ou A)

Signal Name	FPGA Pin No.	Description
GPIO_0[0]	PIN_A13	GPIO Connection 0[0]
GPIO_0[1]	PIN_B13	GPIO Connection 0[1]
GPIO_0[2]	PIN_A14	GPIO Connection 0[2]
GPIO_0[3]	PIN_B14	GPIO Connection 0[3]
GPIO_0[4]	PIN_A15	GPIO Connection 0[4]
GPIO_0[5]	PIN_B15	GPIO Connection 0[5]
GPIO_0[6]	PIN_A16	GPIO Connection 0[6]
GPIO_0[7]	PIN_B16	GPIO Connection 0[7]
GPIO_0[8]	PIN_A17	GPIO Connection 0[8]
GPIO_0[9]	PIN_B17	GPIO Connection 0[9]
GPIO_0[10]	PIN_A18	GPIO Connection 0[10]
GPIO_0[11]	PIN_B18	GPIO Connection 0[11]
GPIO_0[12]	PIN_A19	GPIO Connection 0[12]
GPIO_0[13]	PIN_B19	GPIO Connection 0[13]
GPIO_0[14]	PIN_A20	GPIO Connection 0[14]
GPIO_0[15]	PIN_B20	GPIO Connection 0[15]
GPIO_0[16]	PIN_C21	GPIO Connection 0[16]
GPIO_0[17]	PIN_C22	GPIO Connection 0[17]
GPIO_0[18]	PIN_D21	GPIO Connection 0[18]
GPIO_0[19]	PIN_D22	GPIO Connection 0[19]
GPIO_0[20]	PIN_E21	GPIO Connection 0[20]
GPIO_0[21]	PIN_E22	GPIO Connection 0[21]
GPIO_0[22]	PIN_F21	GPIO Connection 0[22]
GPIO_0[23]	PIN_F22	GPIO Connection 0[23]
GPIO_0[24]	PIN_G21	GPIO Connection 0[24]
GPIO_0[25]	PIN_G22	GPIO Connection 0[25]
GPIO_0[26]	PIN_J21	GPIO Connection 0[26]
GPIO_0[27]	PIN_J22	GPIO Connection 0[27]
GPIO_0[28]	PIN_K21	GPIO Connection 0[28]
GPIO_0[29]	PIN_K22	GPIO Connection 0[29]
GPIO_0[30]	PIN_J19	GPIO Connection 0[30]
GPIO_0[31]	PIN_J20	GPIO Connection 0[31]
GPIO_0[32]	PIN_J18	GPIO Connection 0[32]
GPIO_0[33]	PIN_K20	GPIO Connection 0[33]
GPIO_0[34]	PIN_L19	GPIO Connection 0[34]
GPIO_0[35]	PIN_L18	GPIO Connection 0[35]

## Affectation des broches pour les Entrées-sorties (connecteur 1 ou B)

GPIO_1[0]	PIN_H12	GPIO Connection 1[0]
GPIO_1[1]	PIN_H13	GPIO Connection 1[1]
GPIO_1[2]	PIN_H14	GPIO Connection 1[2]
GPIO_1[3]	PIN_G15	GPIO Connection 1[3]
GPIO_1[4]	PIN_E14	GPIO Connection 1[4]
GPIO_1[5]	PIN_E15	GPIO Connection 1[5]
GPIO_1[6]	PIN_F15	GPIO Connection 1[6]
GPIO_1[7]	PIN_G16	GPIO Connection 1[7]
GPIO_1[8]	PIN_F12	GPIO Connection 1[8]
GPIO_1[9]	PIN_F13	GPIO Connection 1[9]
GPIO_1[10]	PIN_C14	GPIO Connection 1[10]
GPIO_1[11]	PIN_D14	GPIO Connection 1[11]
GPIO_1[12]	PIN_D15	GPIO Connection 1[12]
GPIO_1[13]	PIN_D16	GPIO Connection 1[13]
GPIO_1[14]	PIN_C17	GPIO Connection 1[14]
GPIO_1[15]	PIN_C18	GPIO Connection 1[15]
GPIO_1[16]	PIN_C19	GPIO Connection 1[16]
GPIO_1[17]	PIN_C20	GPIO Connection 1[17]
GPIO_1[18]	PIN_D19	GPIO Connection 1[18]
GPIO_1[19]	PIN_D20	GPIO Connection 1[19]
GPIO_1[20]	PIN_E20	GPIO Connection 1[20]
GPIO_1[21]	PIN_F20	GPIO Connection 1[21]
GPIO_1[22]	PIN_E19	GPIO Connection 1[22]
GPIO_1[23]	PIN_E18	GPIO Connection 1[23]
GPIO_1[24]	PIN_G20	GPIO Connection 1[24]
GPIO_1[25]	PIN_G18	GPIO Connection 1[25]
GPIO_1[26]	PIN_G17	GPIO Connection 1[26]
GPIO_1[27]	PIN_H17	GPIO Connection 1[27]
GPIO_1[28]	PIN_J15	GPIO Connection 1[28]
GPIO_1[29]	PIN_H18	GPIO Connection 1[29]
GPIO_1[30]	PIN_N22	GPIO Connection 1[30]
GPIO_1[31]	PIN_N21	GPIO Connection 1[31]
GPIO_1[32]	PIN_P15	GPIO Connection 1[32]
GPIO_1[33]	PIN_N15	GPIO Connection 1[33]
GPIO_1[34]	PIN_P17	GPIO Connection 1[34]
GPIO_1[35]	PIN_P18	GPIO Connection 1[35]