

Digilent 2E FPGA board with DIO1 I/O board attached to connectors A&B or E&F  
 FPGA Pin numbers rev 4

<u>Function</u>	<u>FPGA pin#</u>	
SW1	16	Slide switches
SW2	18	
SW3	21	
SW4	23	
SW5	27	
SW6	30	
SW7	33	
SW8	35	
BTN1	40	Push buttons (momentary). Asserted high when pressed.
BTN2	41	
BTN3	42	
BTN4	43	
BTN5	64	
LD1	44	LEDs, individual. Asserted high.
LD2	46	
LD3	48	
LD4	55	
LD5	57	
LD6	59	
LD7	61	
LD8	63	
CA	17	7-segment display (individual segments, cathodes). Asserted low.
CB	20	
CC	22	
CD	24	
CE	29	
CF	31	
CG	34	
DP	36	Decimal point of the 7-segment display. Asserted low.
A1	45	Anodes for the 4 display digits. Asserted high. (tie unused anodes low)
A2	47	
A3	49	
A4	56	

Note: Only one digit of the four digit 7-segment display can be used at a time. Assert one of the Anode signals (A1 to A4) at a time corresponding to the digit that should be on. If a four digit number is to be displayed, the Anode signals must be turned on sequentially and the data driving the cathodes multiplexed to be the data appropriate for the digit that is selected.

<u>Function</u>	<u>FPGA pin#</u>	
keybd clock (PS2C)	187	
keybd data (PS2D)	189	
vga-blue	188	
vga-green	191	
vga-red	193	
HSync	192	
VSync	194	
50 Mhz clock	80	Global clock 0
BTN1 on fpga bd	77	Global clock 1
B12 ext clock in	182	Global clock 2
B11 ext clock in	185	Global clock 3