논리회로 및 실험

4주차

AND GATE

INPUT		OUTPUT
A	B	A AND B
0	0	0
0	1	0
1	0	0
1	1	1

OR GATE

INPUT		OUTPUT
A	B	A OR B
0	0	0
0	1	1
1	0	1
1	1	1

XOR GATE

INPUT		OUTPUT
A	B	A XOR B
0	0	0
0	1	1
1	0	1
1	1	0

```
//GATE.V

module GATE(
        A,B,
        X,Y,Z
);

input A,B;
output X,Y,Z;

assign X=A & B;
assign Y=A | B;
assign Z=A ^ B;

endmodule
```

Pin Planner - C:/Users/YeongHyeon/Desktop/DIGITAL/Lab_02/GATE - GATE

File Edit View Processing Tools Window Help

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Report

Report not available

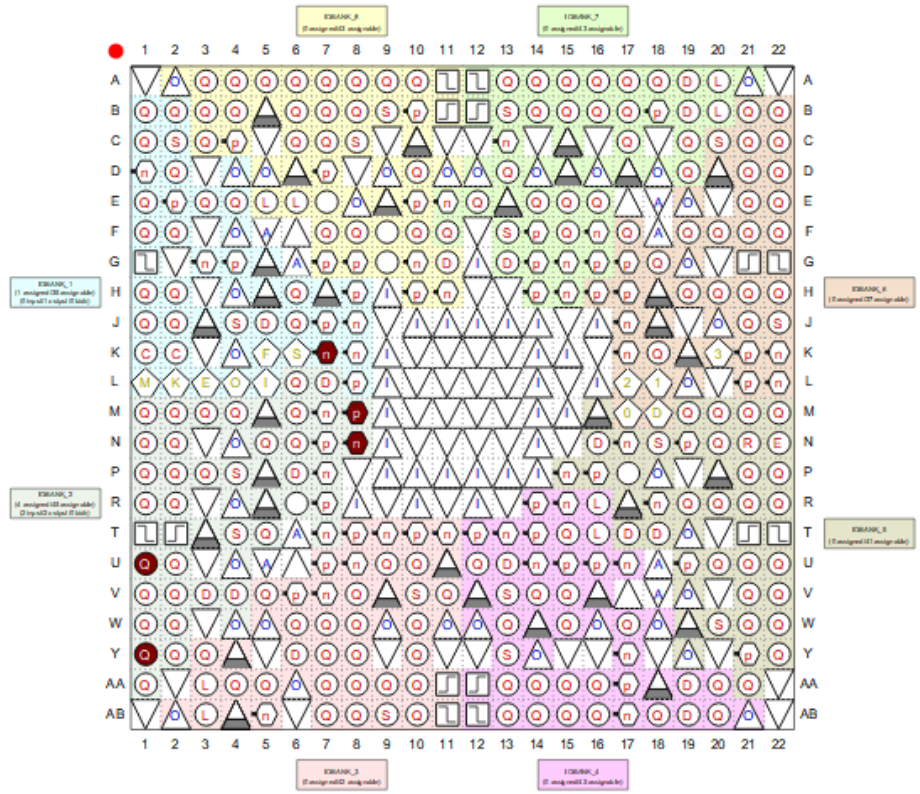
Groups Report

Tasks

Run Anal
Early Pin
Early
Run
Expo
Change
Show
Show
Show
Show

Top View - Wire Bond

Cyclone IV E - EP4CE30F23C8

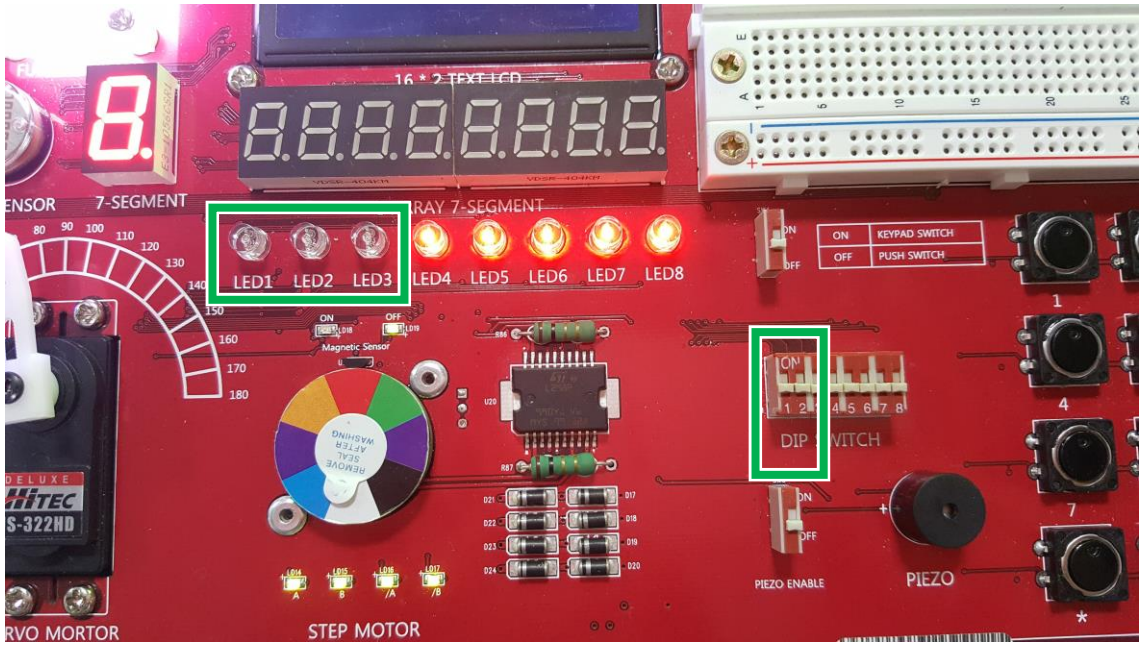


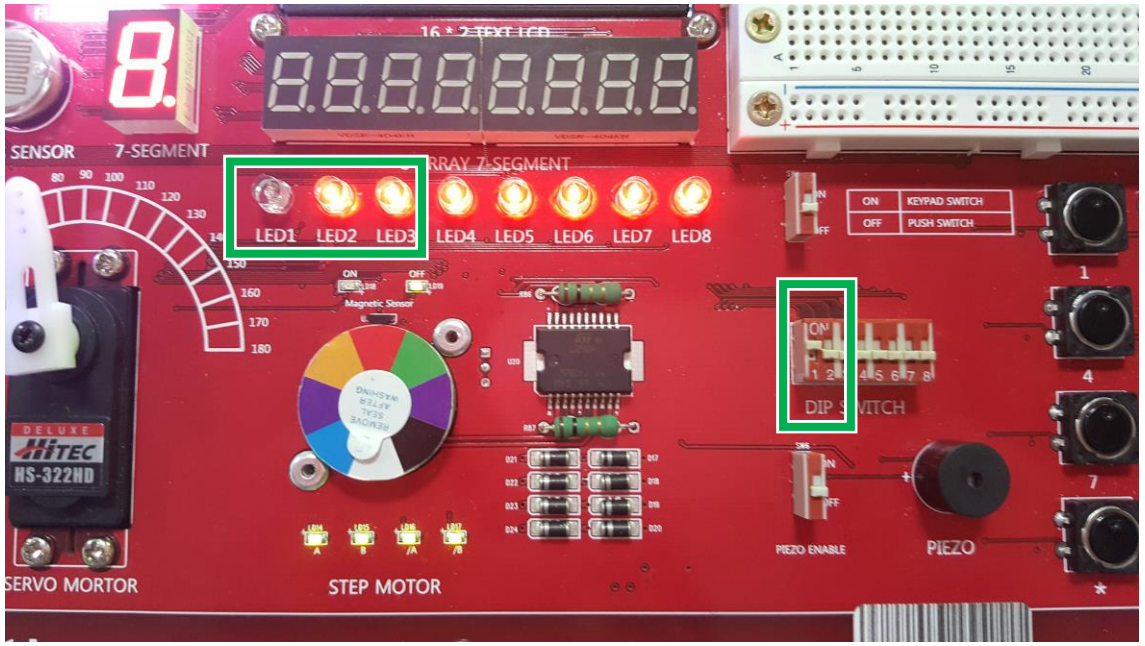
Named: * Edit: Filter: Pins: all

Node Name	Direction	Location	I/O Bank	VREF Group	Fitter Location	I/O Standard	Reserved	Current Strength	Slew Rate	Differential Pa
in A	Input	PIN_U1	2	B2_N1	PIN_U1	2.5 V (default)		8mA (default)		
in B	Input	PIN_Y1	2	B2_N2	PIN_Y1	2.5 V (default)		8mA (default)		
out X	Output	PIN_K7	1	B1_N2	PIN_K7	2.5 V (default)		8mA (default)	2 (default)	
out Y	Output	PIN_M8	2	B2_N1	PIN_M8	2.5 V (default)		8mA (default)	2 (default)	
out Z	Output	PIN_N8	2	B2_N2	PIN_N8	2.5 V (default)		8mA (default)	2 (default)	
<<new node>>										

All Pins

0% 00:00:00


7-SEGMENT
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
ON
KEYPAD SWITCH
OFF
PUSH SWITCH
Magnetic Sensor
DIP
PIEZO ENABLE
PIEZO
STEP MOTOR
RVO MORTOR


SENSOR
7-SEGMENT
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
ON
KEYPAD SWITCH
OFF
PUSH SWITCH
Magnetic Sensor
DIP
PIEZO ENABLE
PIEZO
HS-322HD
SERVO MORTOR
STEP MOTOR