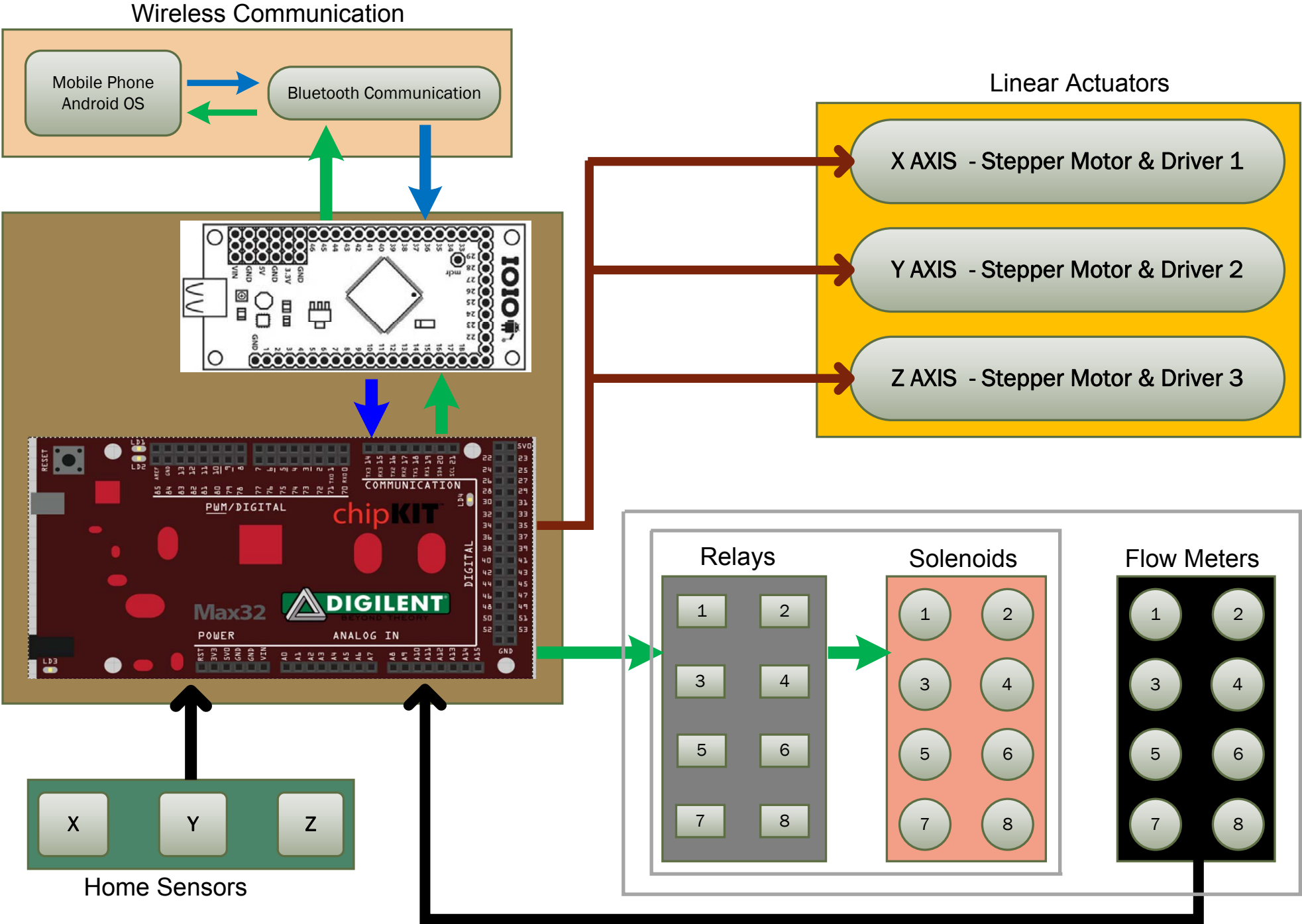


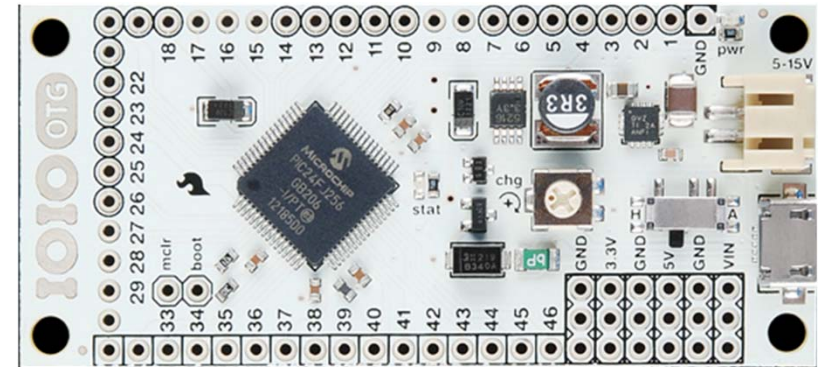
# Block Diagram



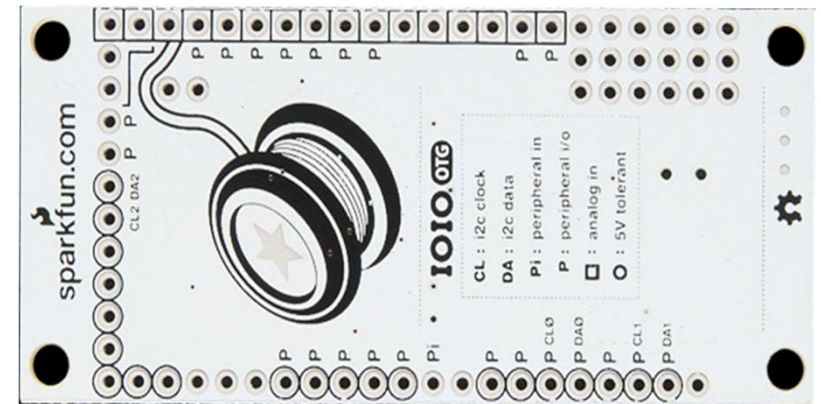
## Microcontroller and IOIO

description	Pins #	i/o device
pulse y	6	pulse y
direction y	7	direction y
pulse z	8	pulse z
direction z	9	direction z
pulse x	10	pulse x
direction x	11	direction x
jog up	22	IOIO 31
jog down	23	IOIO 32
flow 7	24	flow 7
manual solenoid bit 2	25	IOIO 41
manual solenoid bit 3	26	IOIO 42
manual solenoid bit 4	27	IOIO 43
manual solenoid bit 1	28	IOIO 33
flow 1	30	flow 1
flow 2	31	flow 2
flow 4	33	flow 4
flow 5	34	flow 5
flow 6	35	flow 6
flow 8	37	flow 8
x home sensor	38	x home sensor
y home sensor	39	y home sensor
z home sensor	41	z home sensor

screw diver order in	42	IOIO 18
jog left	42	IOIO 21
cuba libre order in	43	IOIO 19
jog forward	43	IOIO 18
shiley temple order in	44	IOIO 20
jog right	44	IOIO 19
matini order in	45	IOIO 21
jog reverse	45	IOIO 20
acknowledgment trans	48	IOIO 44
flow 3	49	flow 3
manual home	50	IOIO 22
rum out	71	rum out
gin out	72	gin out
vermouth out	73	vermouth out
oj out	74	oj out
coke out	75	coke out
sprite out	76	sprite out
grenadine out	77	grenadine out
vodka out	78	vodka out
manual control	80	IOIO 24



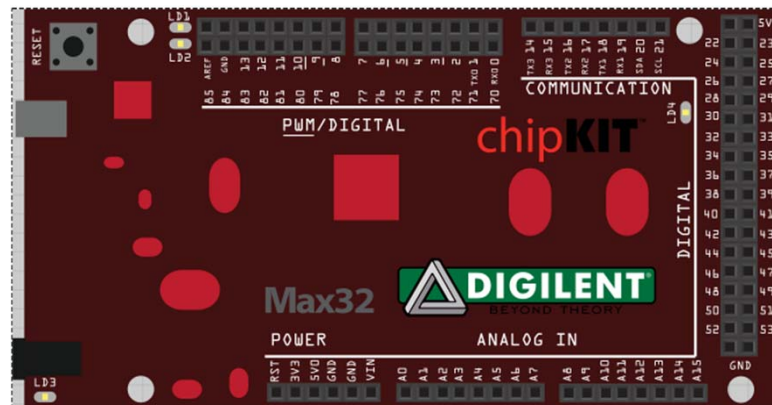
Top view of the IOIO



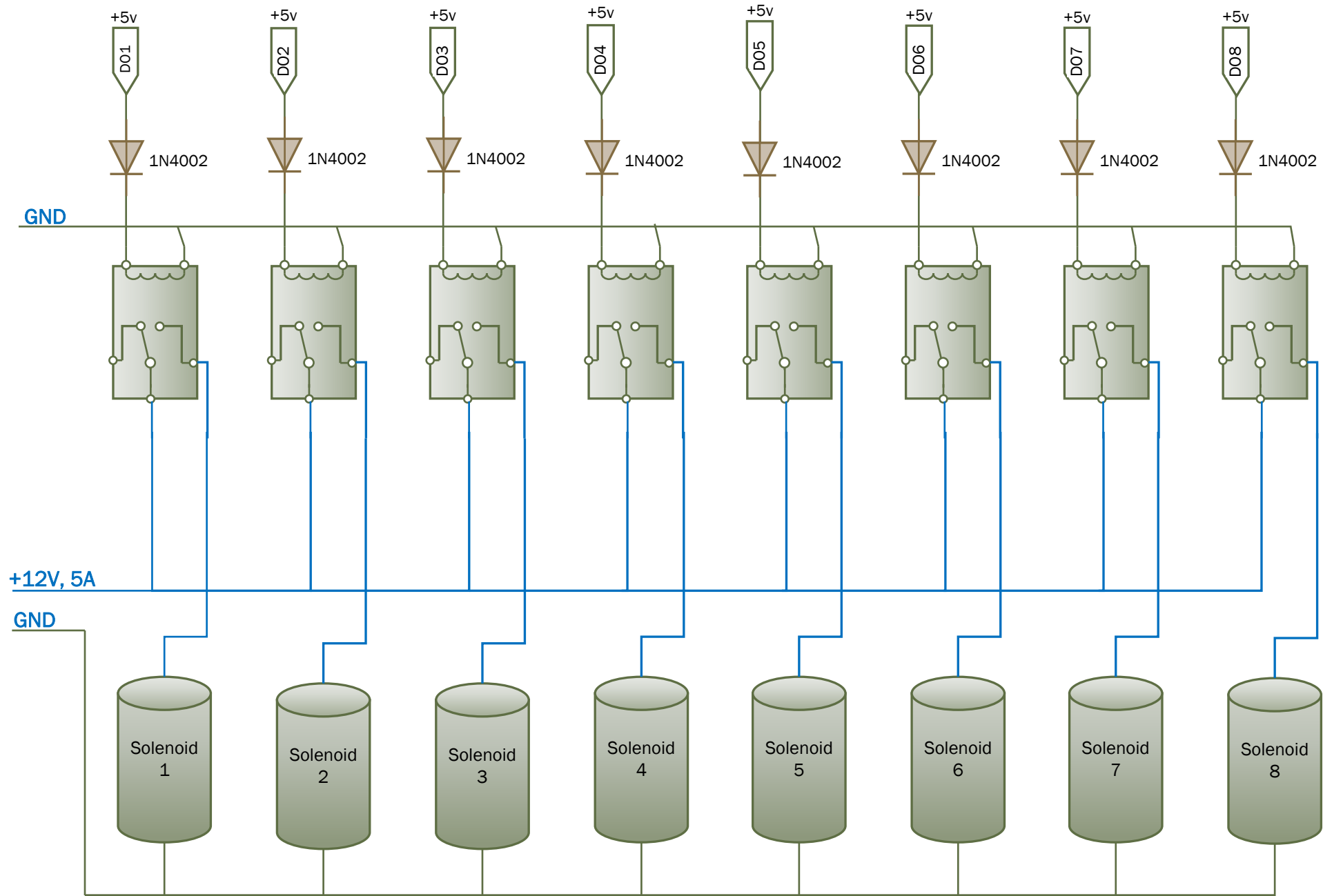
Bottom view of the IOIO

legend
input
output

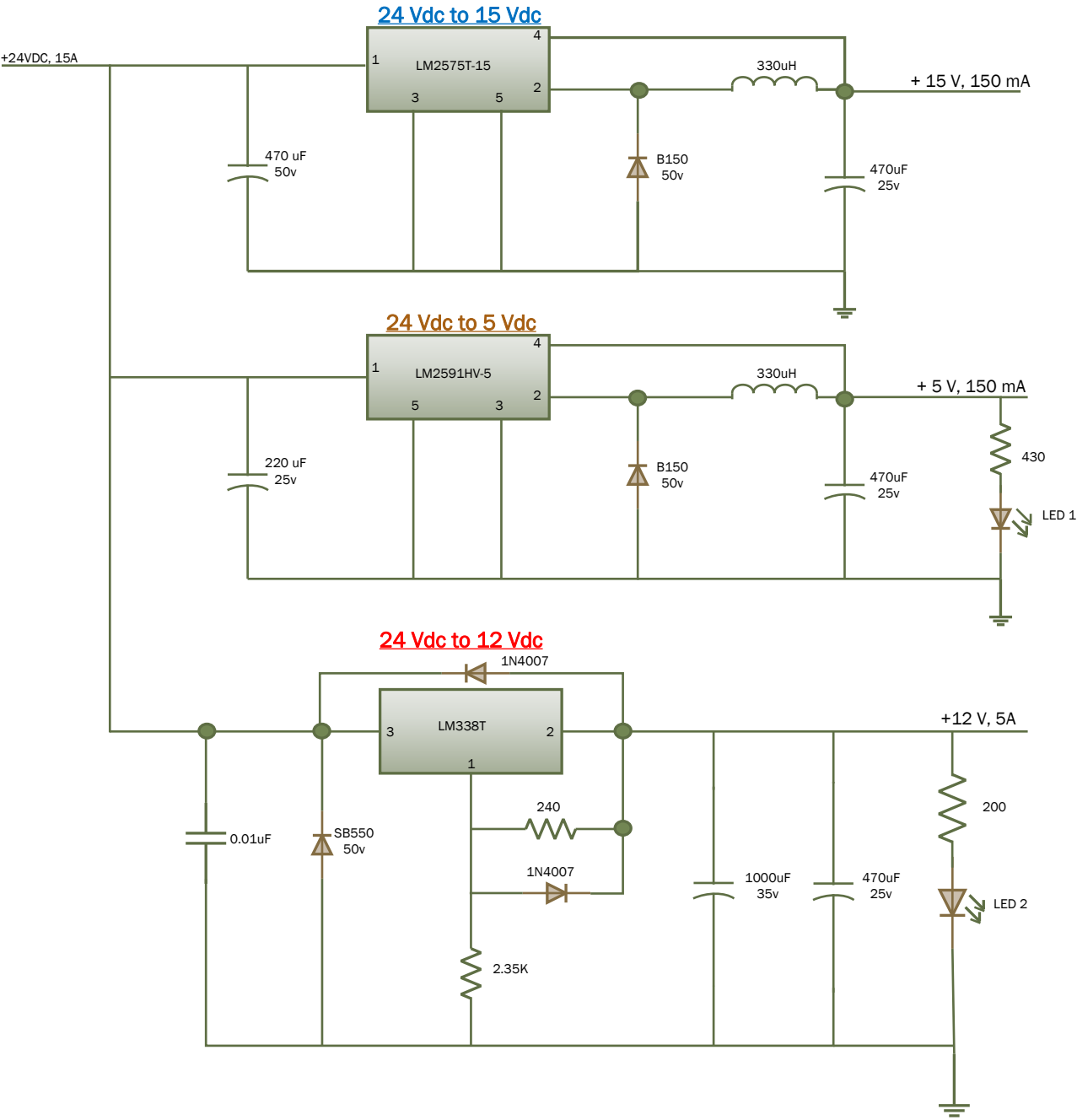
### Microcontroller Max32



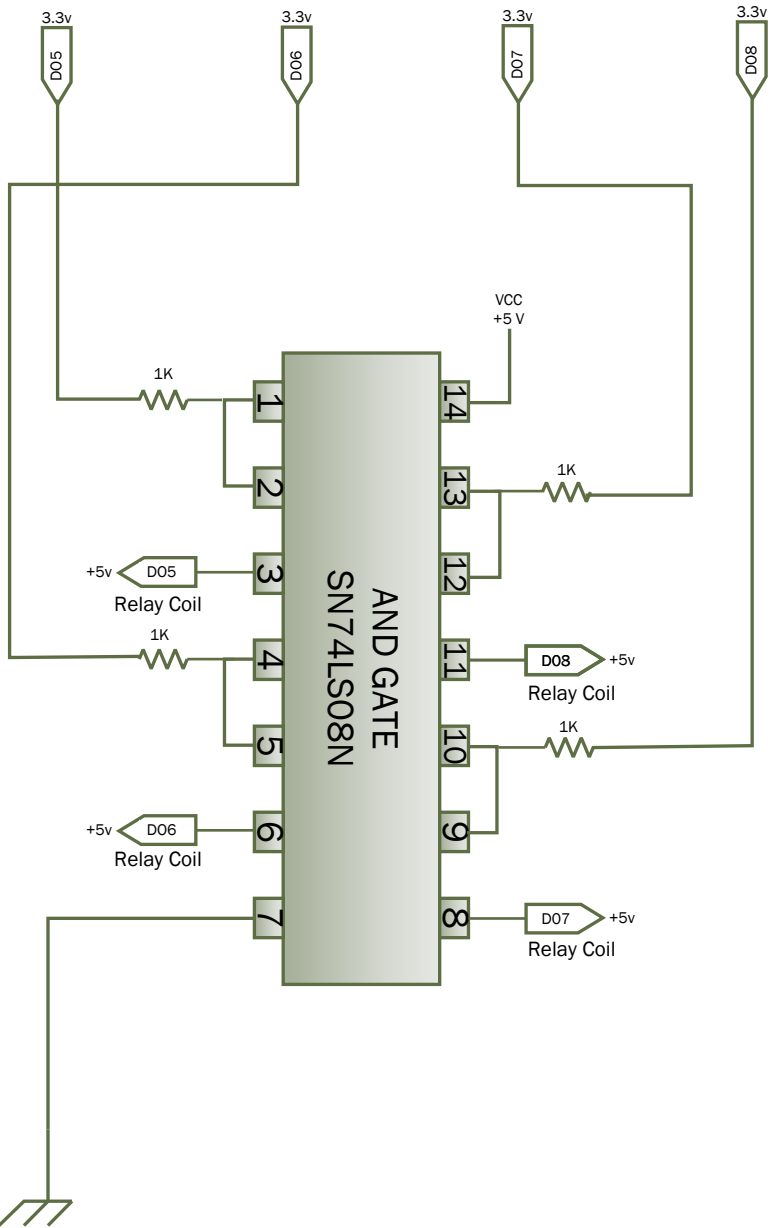
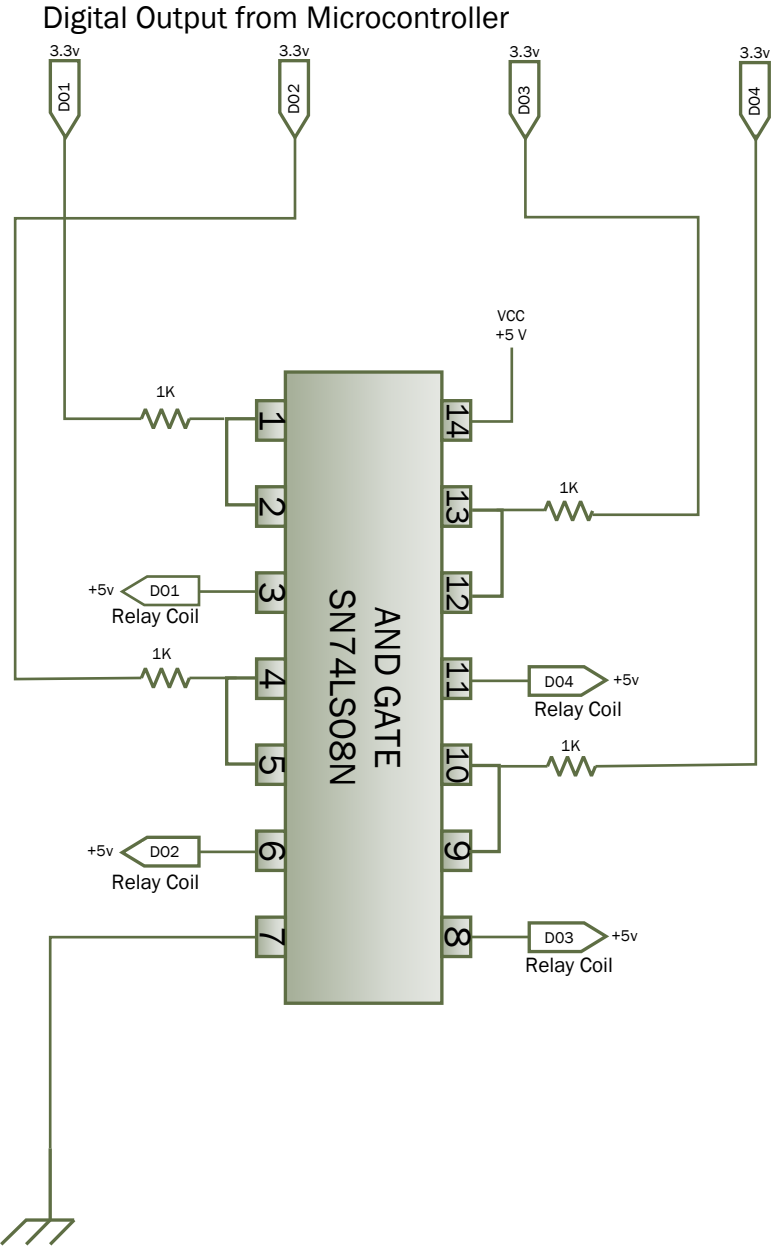
Solenoids Circuit



DC to DC Voltage Converters



AND Gate Circuit



Optocoupler Circuit

