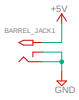
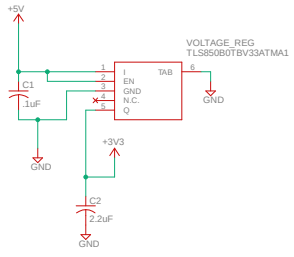
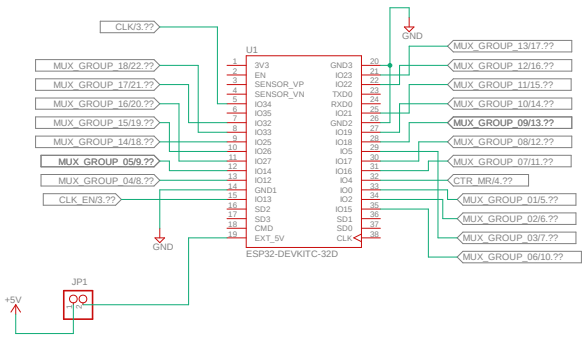
Power

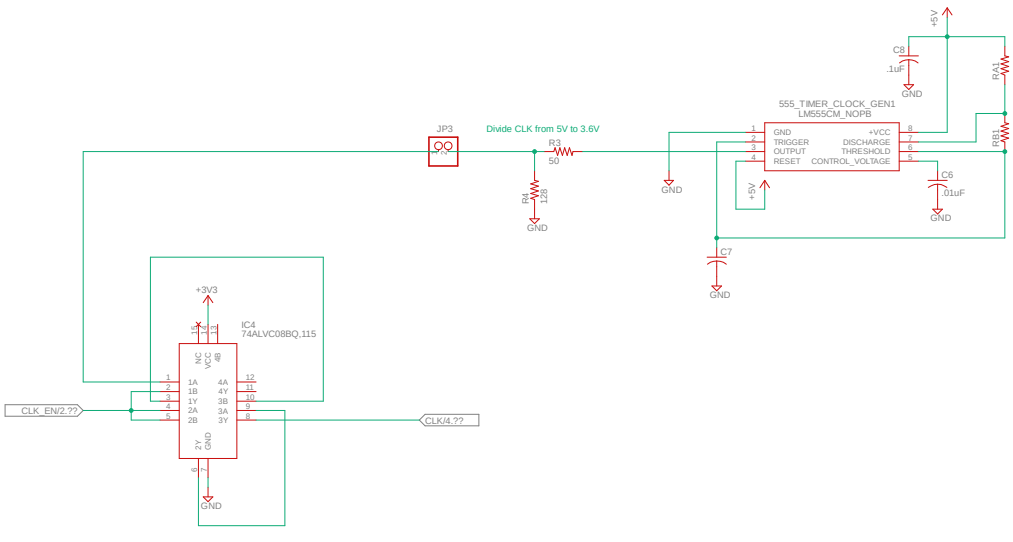

+5V
BARREL_JACK1
GND


+5V
VOLTAGE_REG
TLS850B0TBV33ATMA1
C1
.1uF
GND
I
EN
GND
N.C.
Q
TAB
1
2
3
4
5
6
GND
+3V3
C2
2.2uF
GND

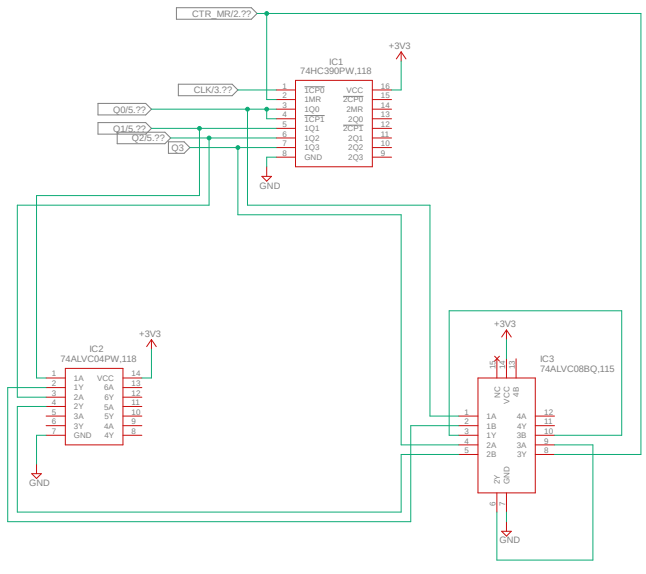
Controling IC



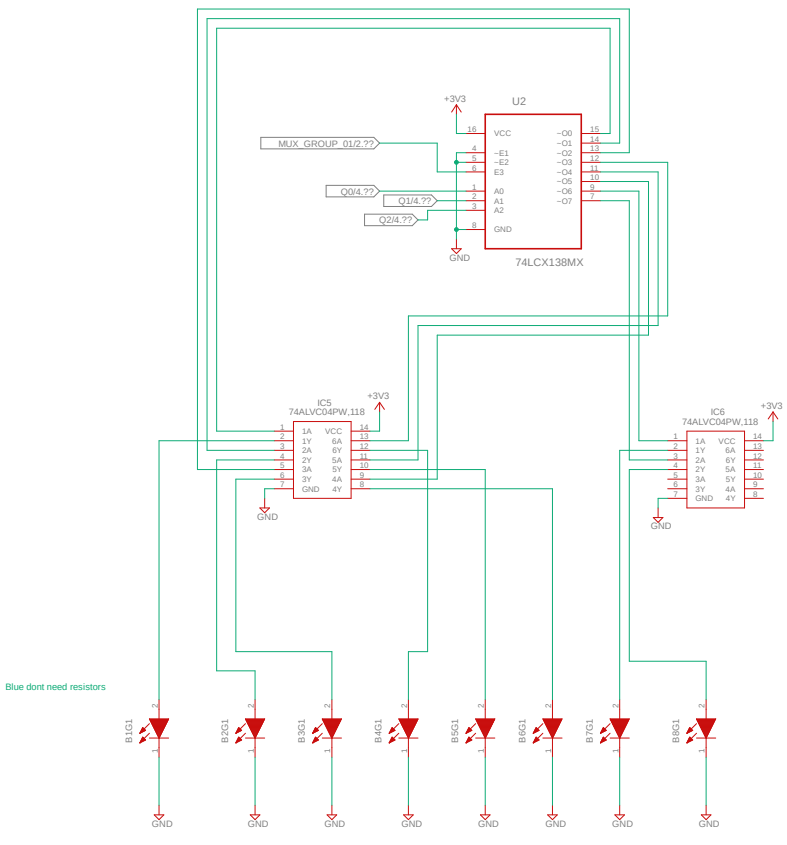
CLK


JP3
Divide CLK from 5V to 3.6V
R3
50
R4
150
GND
+5V
C8
.1uF
555_TIMER_CLOCK_GEN1
LM555CM_NOPB
GND
TRIGGER
OUTPUT
RESET
+VCC
DISCHARGE
THRESHOLD
CONTROL_VOLTAGE
R1
R2
C6
.01uF
C7
IC4
74ALVC08BQ,115
+3V3
1A
1B
1Y
2A
2B
2Y
3A
3B
3Y
4A
4B
4Y
CLK_EN/2.??
CLK/4.??

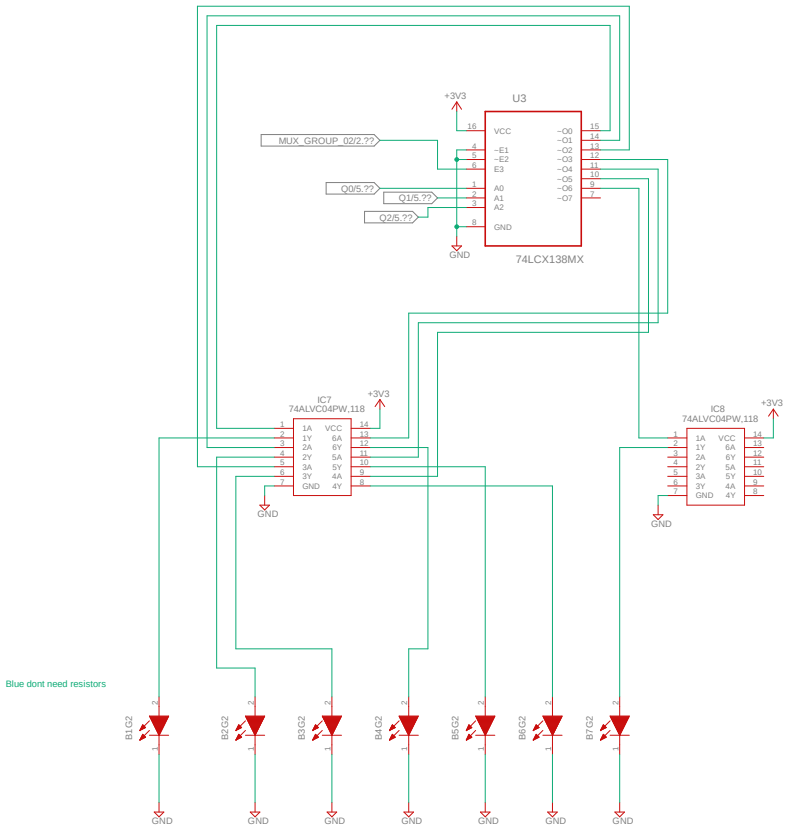
Counter


CTR_MR/2.??
+3V3
IC1
74HC390PW,118
CLK/3.??
Q0/5.??
Q1/5.??
Q2/5.??
Q3
GND
IC2
74ALVC04PW,118
+3V3
GND
+3V3
IC3
74ALVC08BQ,115
GND

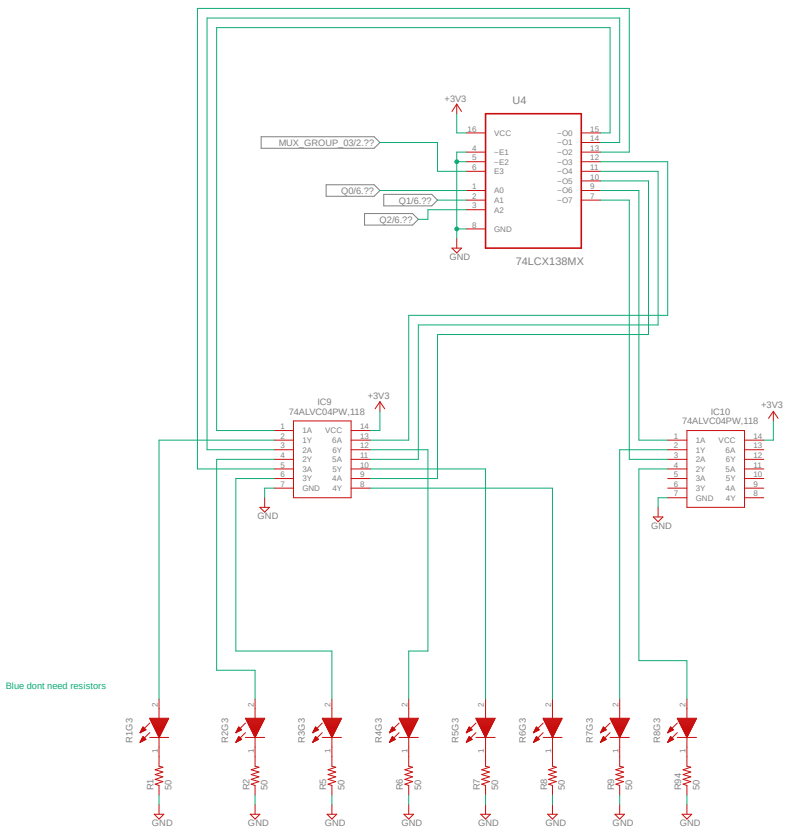
MUX Group #1


U2
+3V3
MUX_GROUP_01/2.??
Q0/4.??
Q1/4.??
Q2/4.??
GND
74LCX138MX
IC5
74ALVC04PW,118
IC6
74ALVC04PW,118
Blue dont need resistors
B1G1
B2G1
B3G1
B4G1
B5G1
B6G1
B7G1
B8G1

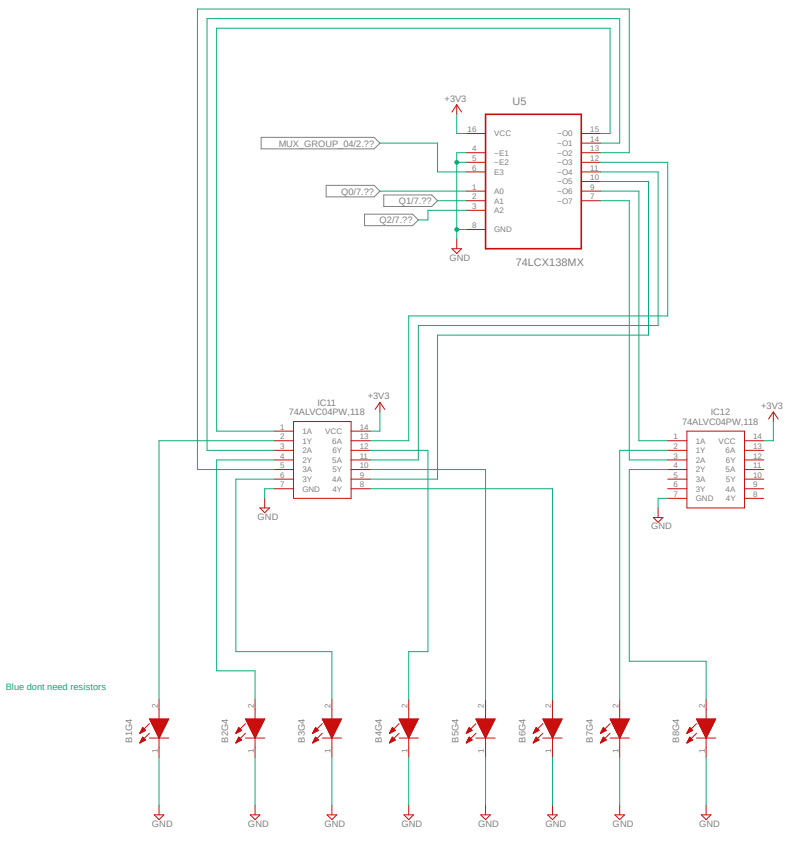
MUX Group #2


U3
+3V3
MUX_GROUP_02/2.??
Q0/5.??
Q1/5.??
Q2/5.??
VCC
GND
74LCX138MX
IC7
74ALVC04PW,118
IC8
74ALVC04PW,118
Blue dont need resistors
B1G2
B2G2
B3G2
B4G2
B5G2
B6G2
B7G2

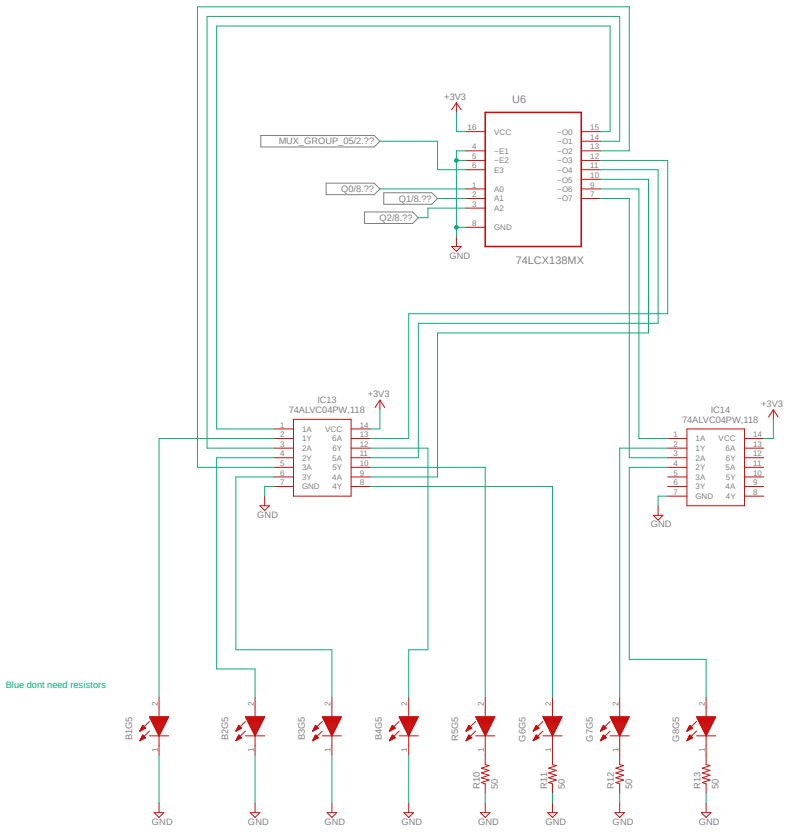
MUX Group #3


U4
+3V3
MUX_GROUP_03/2.??
Q0/6.??
Q1/6.??
Q2/6.??
GND
74LCX138MX
IC9
74ALVC04PW,118
IC10
74ALVC04PW,118
Blue dont need resistors
R1G3
R2G3
R3G3
R4G3
R5G3
R6G3
R7G3
R8G3
R1
R2
R5
R6
R7
R8
R9
R84
50

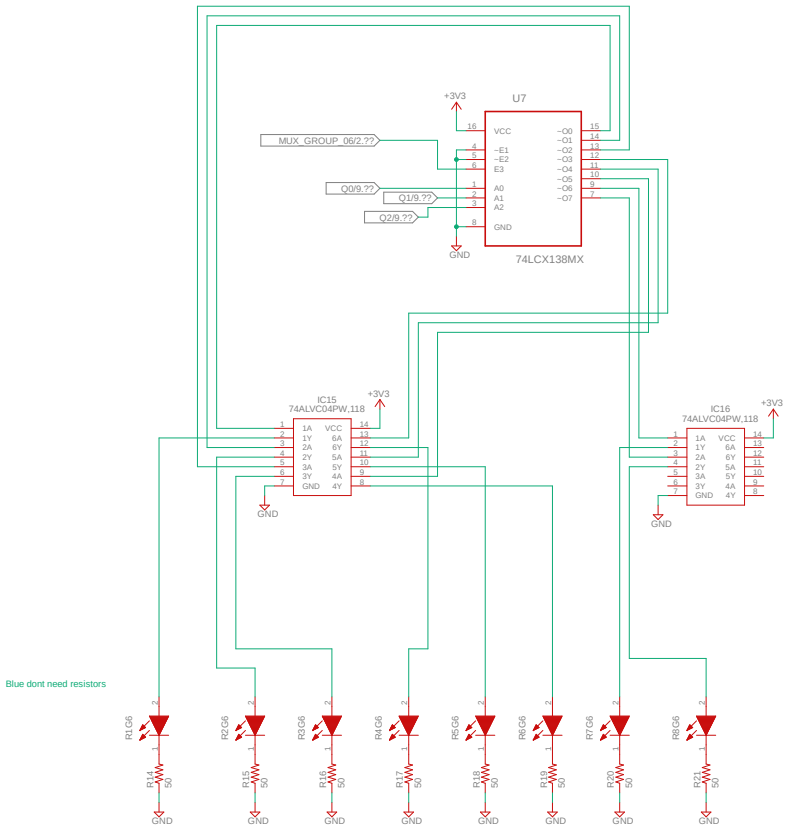
MUX Group #4


U5
+3V3
MUX_GROUP_04/2.??
Q0/7.??
Q1/7.??
Q2/7.??
VCC
GND
74LCX138MX
IC11
74ALVC04PW,118
IC12
74ALVC04PW,118
Blue dont need resistors
B1G4
B2G4
B3G4
B4G4
B5G4
B6G4
B7G4
B8G4

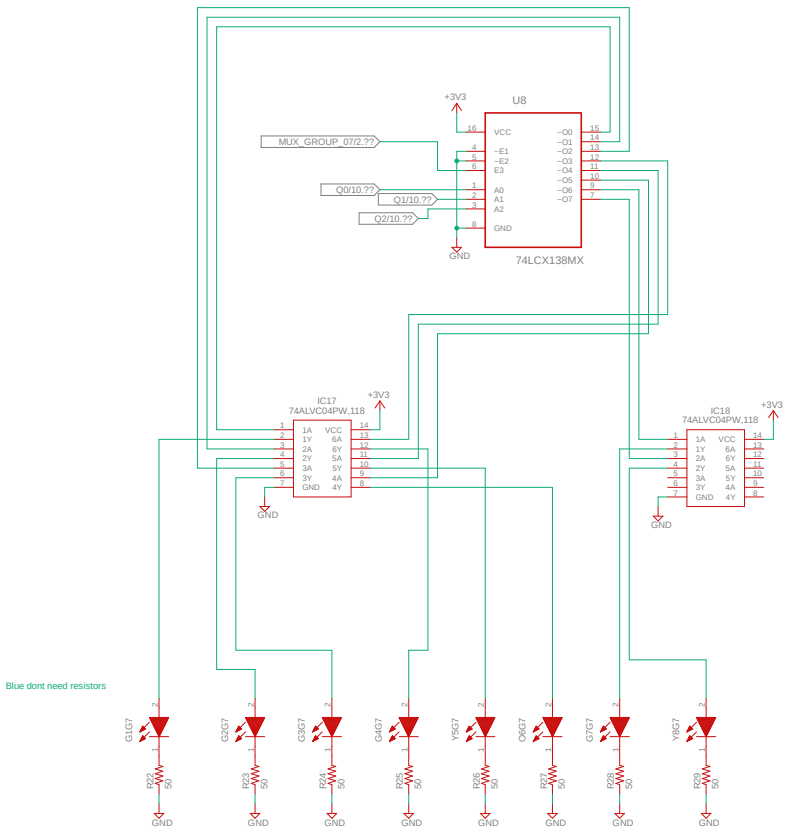
MUX Group #5


U6
+3V3
MUX_GROUP_05/2.??
Q0/8.??
Q1/8.??
Q2/8.??
GND
74LCX138MX
IC13
74ALVC04PW,118
IC14
74ALVC04PW,118
Blue dont need resistors
B1G5
B2G5
B3G5
B4G5
R5G5
G6G5
C7G5
G8G5
R10
R11
R12
R13
50

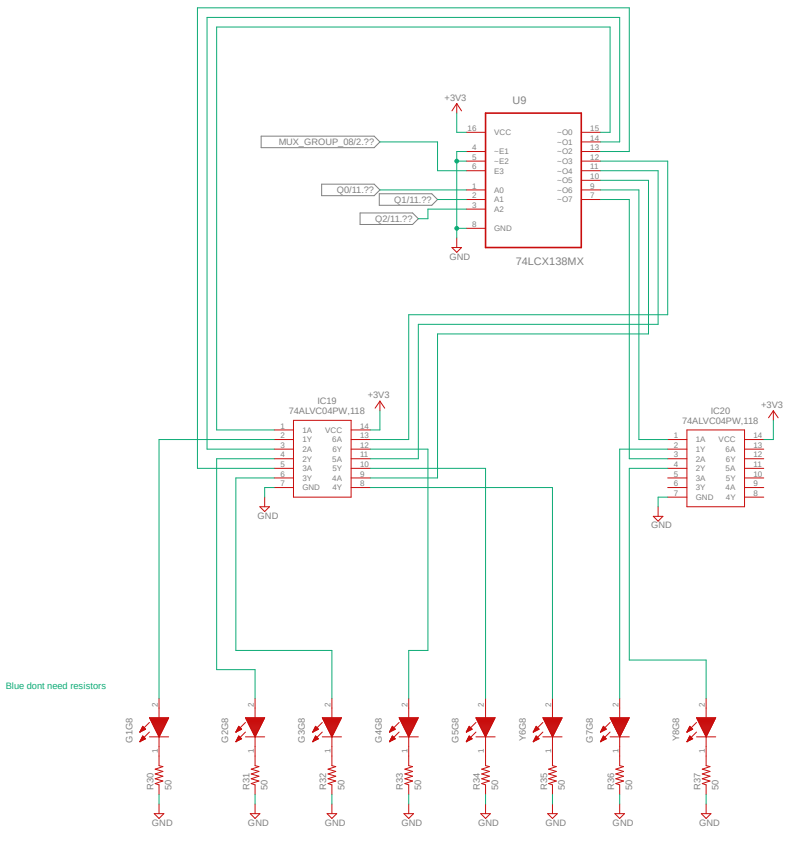
MUX Group #6


U7
+3V3
MUX_GROUP_06/2.??
Q0/9.??
Q1/9.??
Q2/9.??
GND
74LCX138MX
IC15
74ALVC04PW,118
IC16
74ALVC04PW,118
Blue dont need resistors
R1G6
R2G6
R3G6
R4G6
R5G6
R6G6
R7G6
R8G6
R14
R15
R16
R17
R18
R19
R20
R21
50

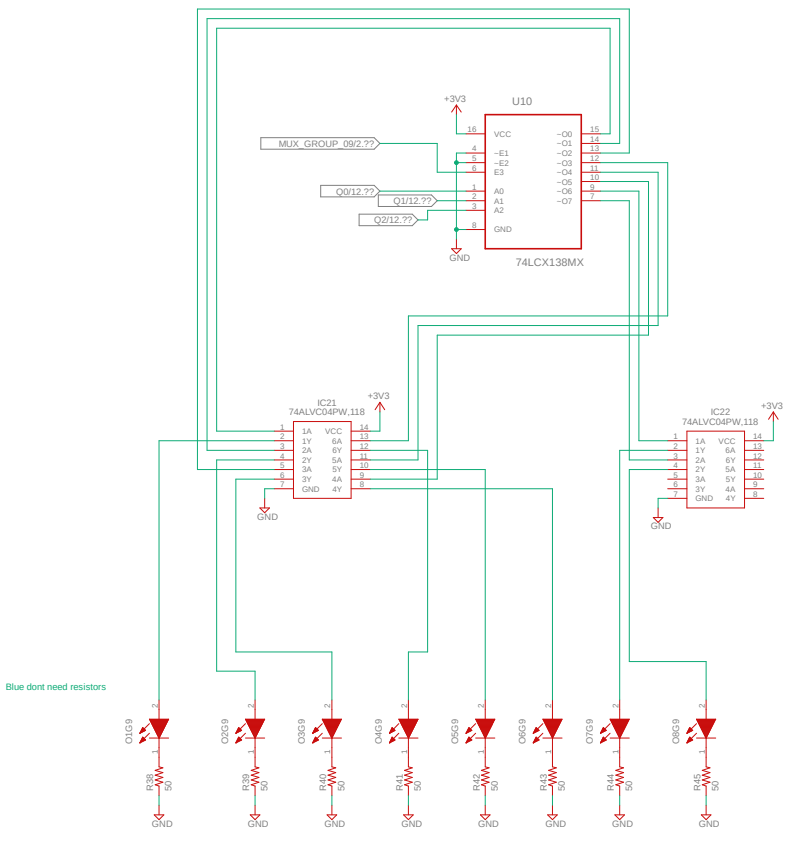
MUX Group #7


U8
+3V3
MUX_GROUP_07/2.??
Q0/10.??
Q1/10.??
Q2/10.??
74LCX138MX
IC17
74ALVC04PW,118
IC18
74ALVC04PW,118
GND
Blue dont need resistors
G1G7
G2G7
G3G7
G4G7
Y5G7
O6G7
G7G7
Y8G7
R22
R23
R24
R25
R26
R27
R28
R29
50

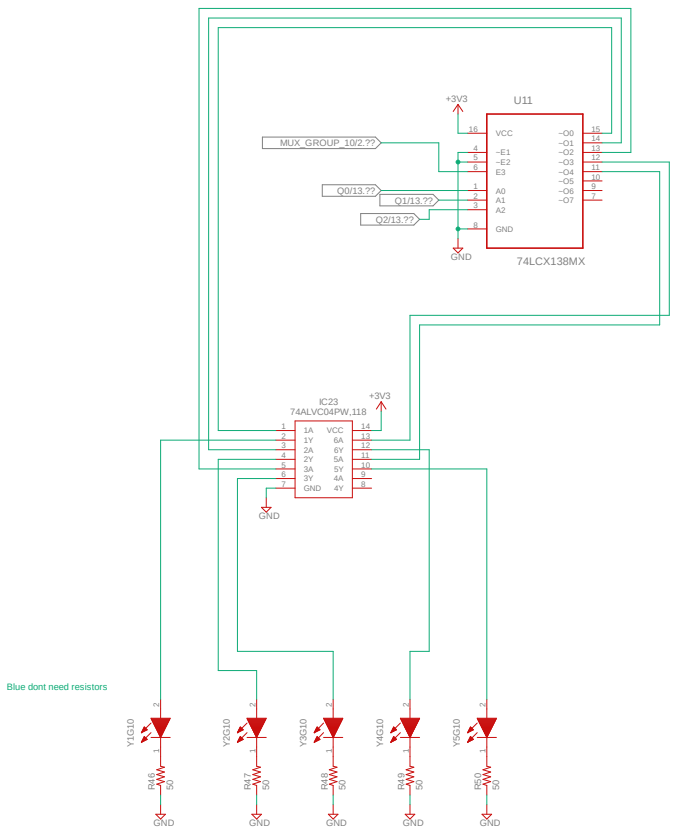
MUX Group #8


U9
+3V3
MUX_GROUP_08/2.??
Q0/11.??
Q1/11.??
Q2/11.??
GND
74LCX138MX
IC19
74ALVC04PW,118
IC20
74ALVC04PW,118
Blue dont need resistors
G1G8
G2G8
G3G8
G4G8
G5G8
Y6G8
G7G8
Y8G8
R30
R31
R32
R33
R34
R35
R36
R37
50

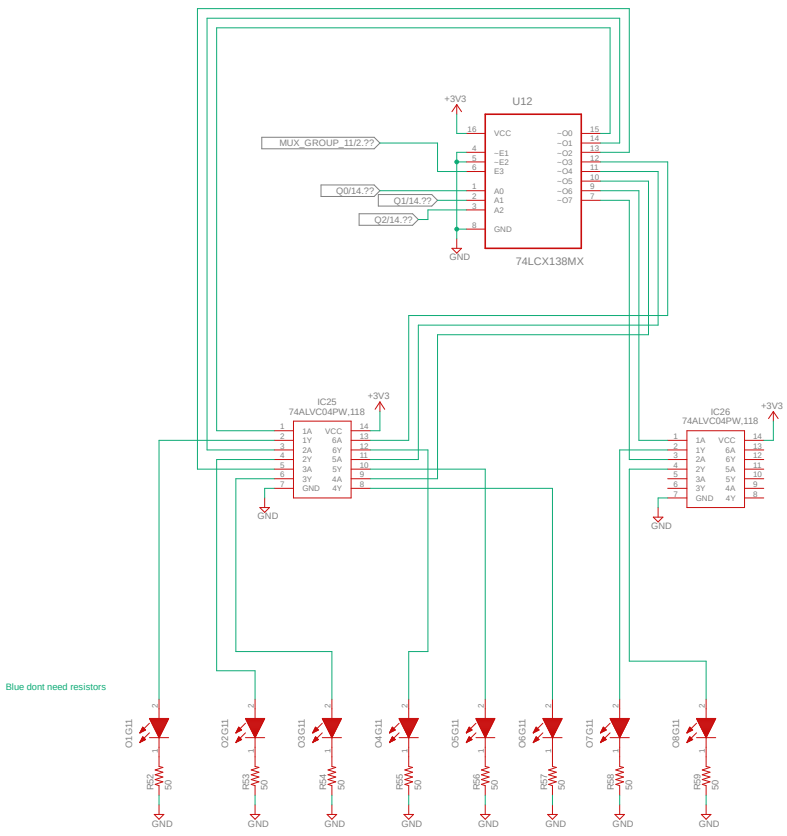
MUX Group #9


U10
+3V3
MUX_GROUP_09/2.??
Q0/12.??
Q1/12.??
Q2/12.??
VCC
GND
74LCX138MX
IC21
74ALVC04PW,118
IC22
74ALVC04PW,118
Blue dont need resistors
O1G9
O2G9
O3G9
O4G9
O5G9
O6G9
O7G9
O8G9
R38
R39
R40
R41
R42
R43
R44
R45
50

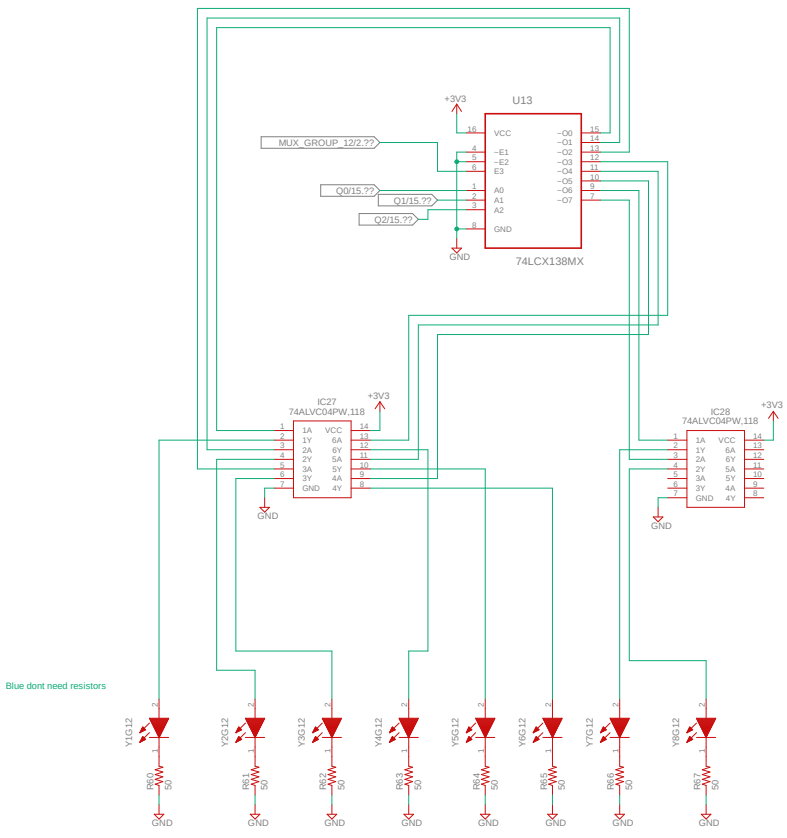
MUX Group #10


+3V3
U11
MUX_GROUP_10/2.??
Q0/13.??
Q1/13.??
Q2/13.??
VCC
GND
74LCX138MX
IC23
74ALVC04PW,118
Blue dont need resistors
Y1G10
Y2G10
Y3G10
Y4G10
Y5G10
R46
R47
R48
R49
R50
50

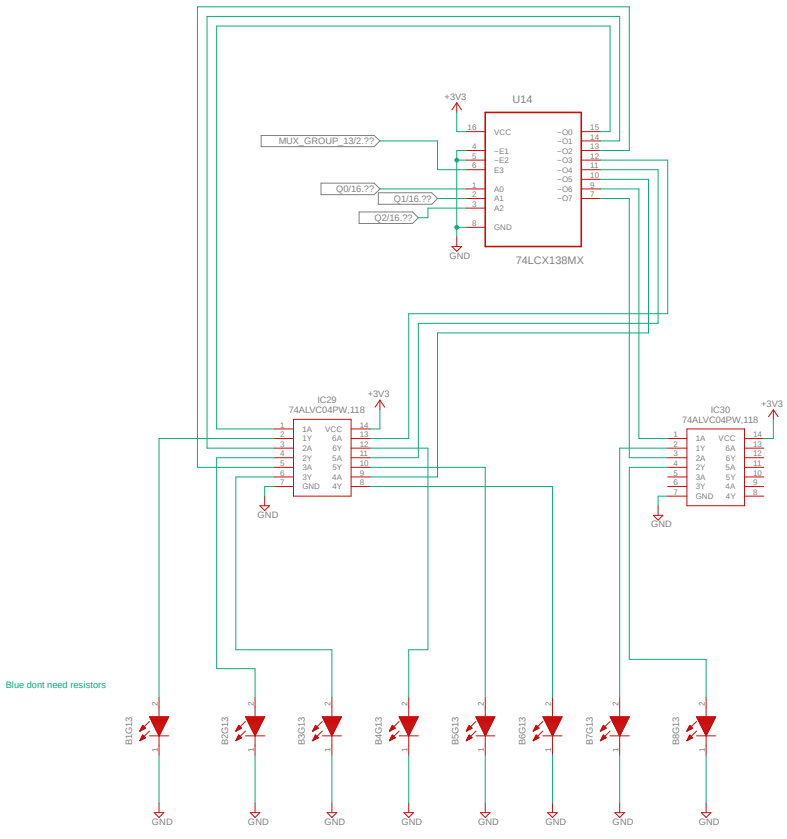
MUX Group #11


U12
+3V3
MUX_GROUP_11/2.??
Q0/14.??
Q1/14.??
Q2/14.??
74LCX138MX
IC25
74ALVC04PW,118
IC26
74ALVC04PW,118
GND
Blue dont need resistors
O1G11
O2G11
O3G11
O4G11
O5G11
O6G11
O7G11
O8G11
R52
R53
R54
R55
R56
R57
R58
R59
50

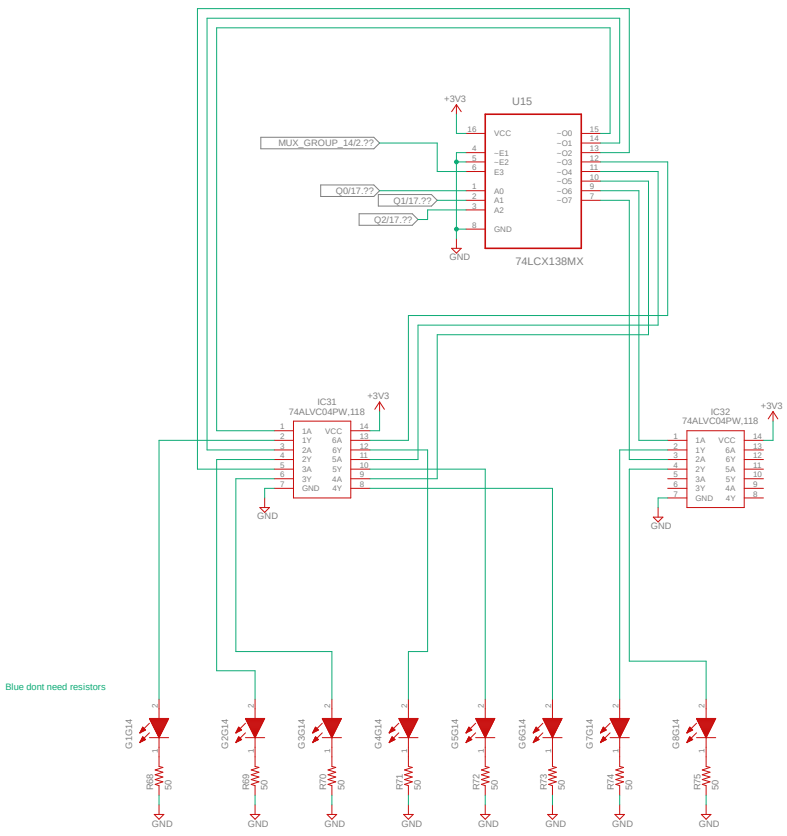
MUX Group #12


U13
+3V3
MUX_GROUP_12/2.??
Q0/15.??
Q1/15.??
Q2/15.??
GND
74LCX138MX
IC27
74ALVC04PW,118
IC28
74ALVC04PW,118
Blue dont need resistors
Y1G12
Y2G12
Y3G12
Y4G12
Y5G12
Y6G12
Y7G12
Y8G12
R60
R61
R62
R63
R64
R65
R66
R67
50

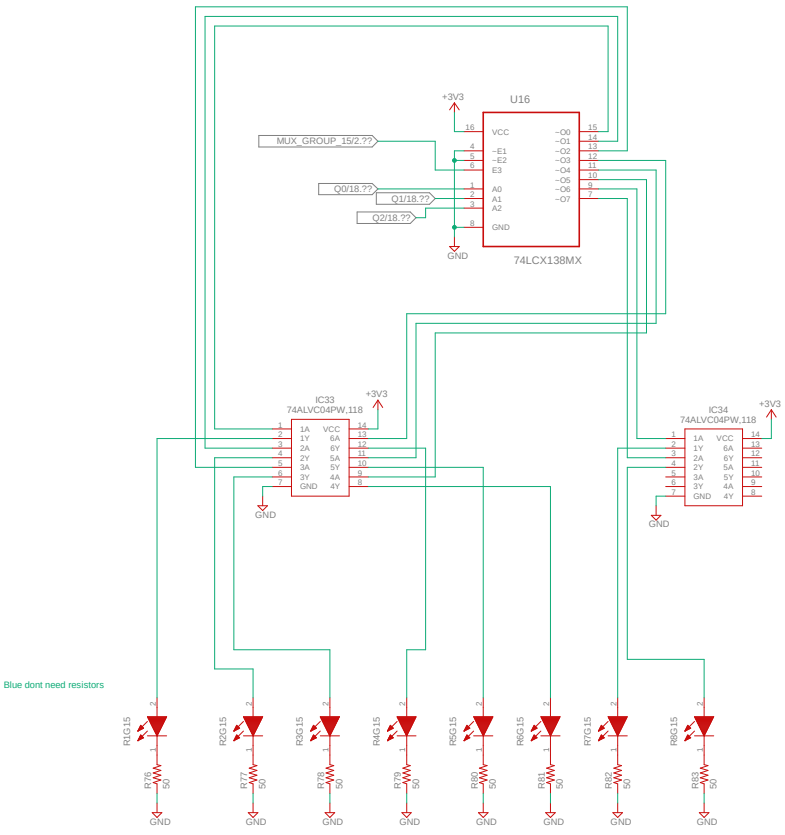
MUX Group #13


U14
+3V3
MUX_GROUP_13/2.??
Q0/16.??
Q1/16.??
Q2/16.??
GND
74LCX138MX
IC29
74ALVC04PW,118
IC30
74ALVC04PW,118
Blue dont need resistors
B1G13
B2G13
B3G13
B4G13
B5G13
B6G13
B7G13
B8G13

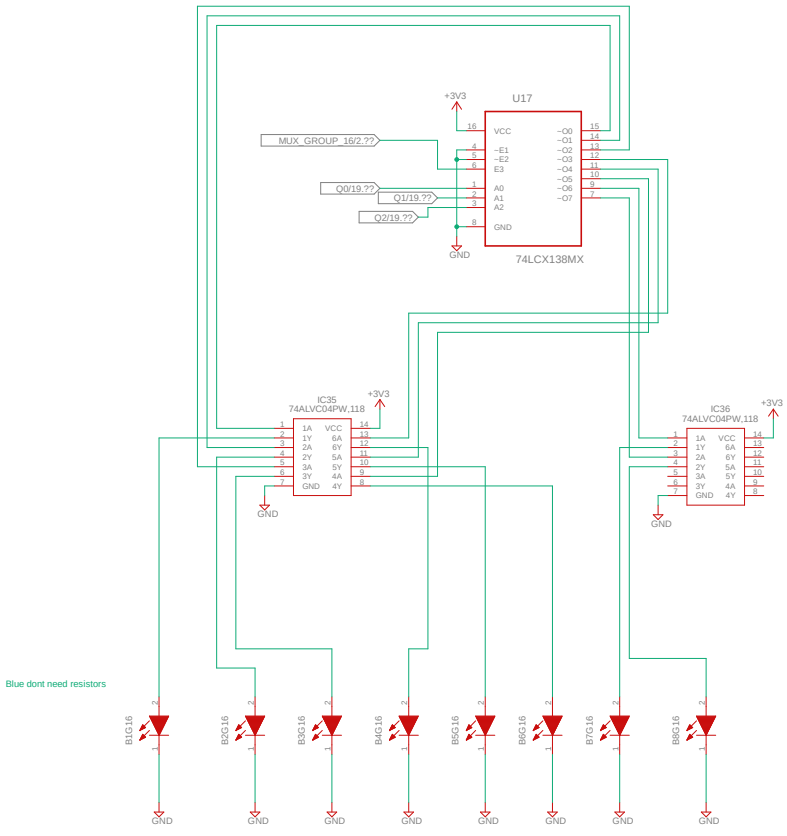
MUX Group #14


U15
+3V3
MUX_GROUP_14/2.??
Q0/17.??
Q1/17.??
Q2/17.??
GND
74LCX138MX
IC31
74ALVC04PW,118
IC32
74ALVC04PW,118
Blue dont need resistors
G1G14
G2G14
G3G14
G4G14
G5G14
G6G14
G7G14
G8G14
R68
R69
R70
R71
R72
R73
R74
R75
50

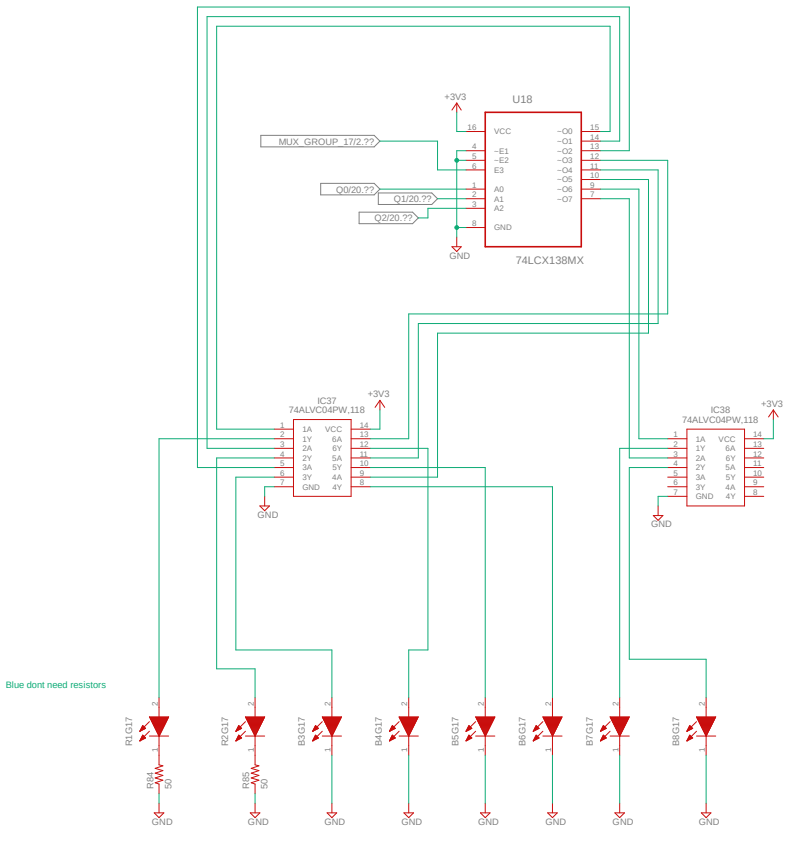
MUX Group #15


U16
+3V3
MUX_GROUP_15/2.??
Q0/18.??
Q1/18.??
Q2/18.??
GND
74LCX138MX
IC33
74ALVC04PW,118
IC34
74ALVC04PW,118
Blue dont need resistors
R1G15
R2G15
R3G15
R4G15
R5G15
R6G15
R7G15
R8G15
R76
R77
R78
R79
R80
R81
R82
R83
50

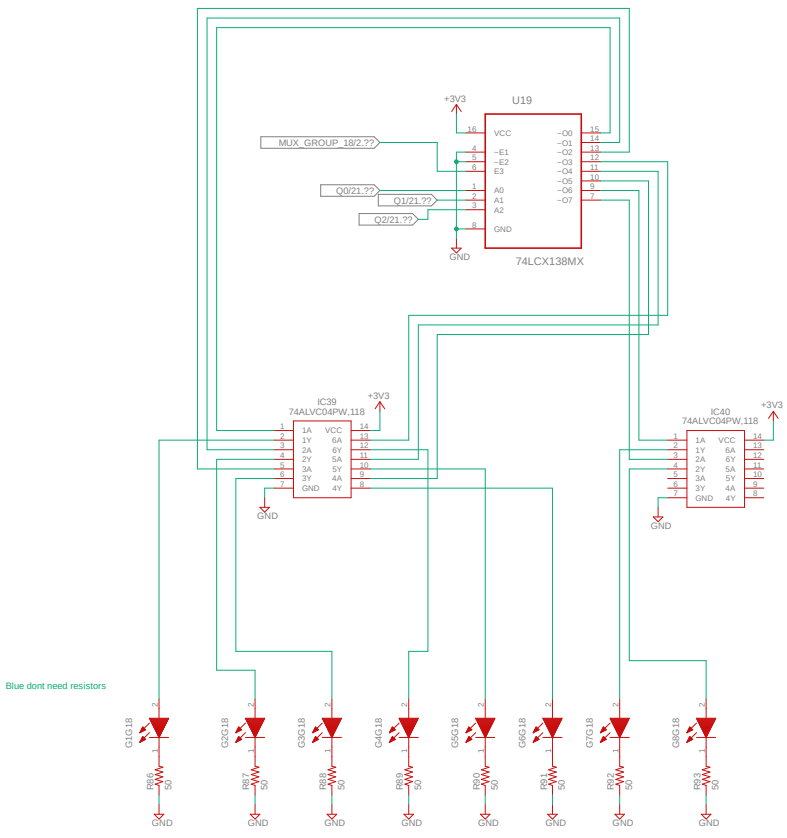
MUX Group #16


U17
+3V3
MUX_GROUP_16/2.??
Q0/19.??
Q1/19.??
Q2/19.??
VCC
GND
74LCX138MX
IC35
74ALVC04PW,118
IC36
74ALVC04PW,118
Blue dont need resistors
B1G16
B2G16
B3G16
B4G16
B5G16
B6G16
B7G16
B8G16

MUX Group #17


U18
+3V3
MUX_GROUP_17/2.??
Q0/20.??
Q1/20.??
Q2/20.??
VCC
GND
74LCX138MX
IC37
74ALVC04PW,118
IC38
74ALVC04PW,118
Blue dont need resistors
R1G17
R2G17
B3G17
B4G17
B5G17
B6G17
B7G17
B8G17
R84
50
R85
50

MUX Group #18


U19
+3V3
MUX_GROUP_18/2.??
Q0/21.??
Q1/21.??
Q2/21.??
GND
74LCX138MX
IC39
74ALVC04PW,118
IC40
74ALVC04PW,118
Blue dont need resistors
G1G18
G2G18
G3G18
G4G18
G5G18
G6G18
G7G18
G8G18
R86
R87
R88
R89
R90
R91
R92
R93
50