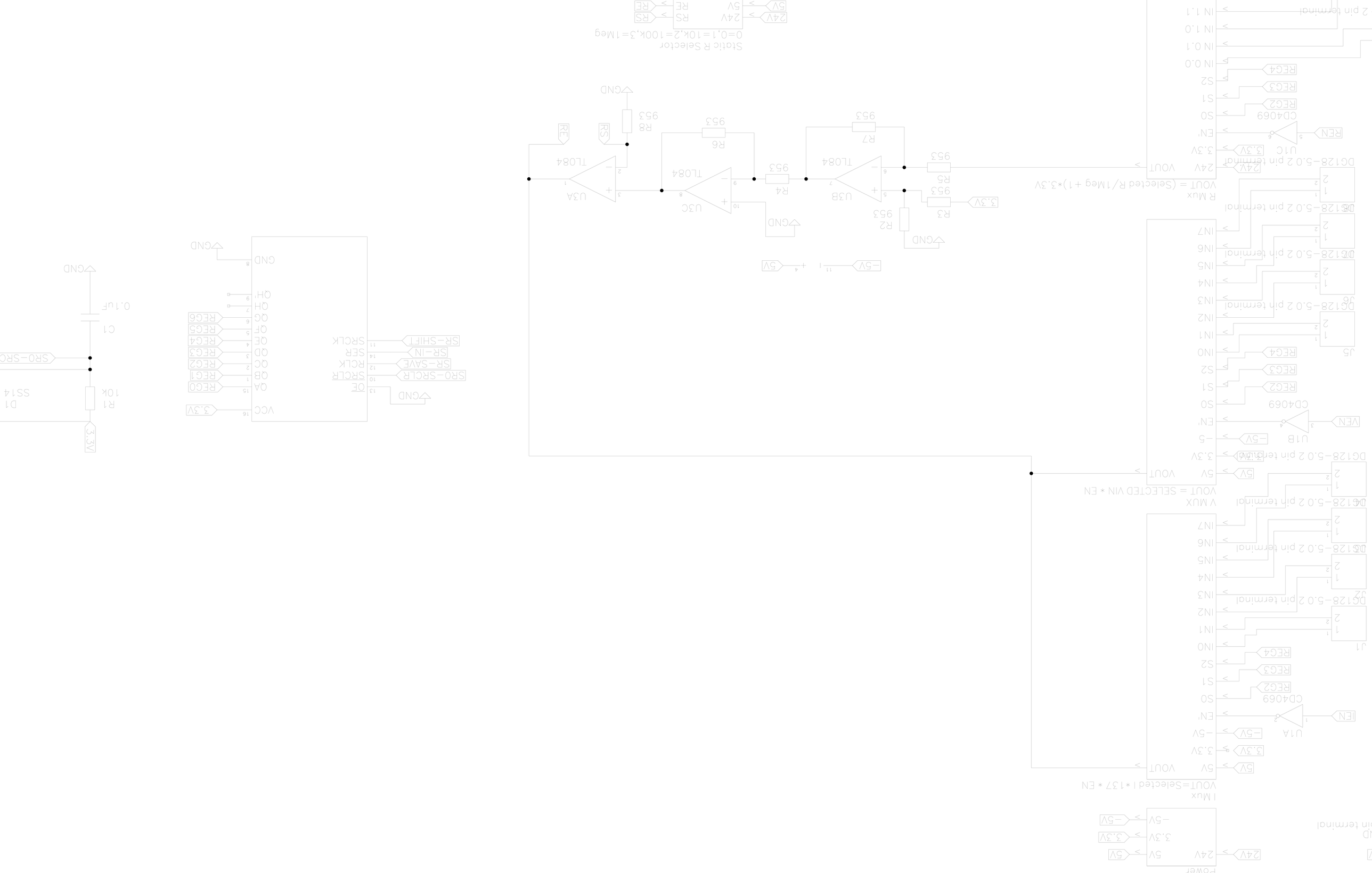
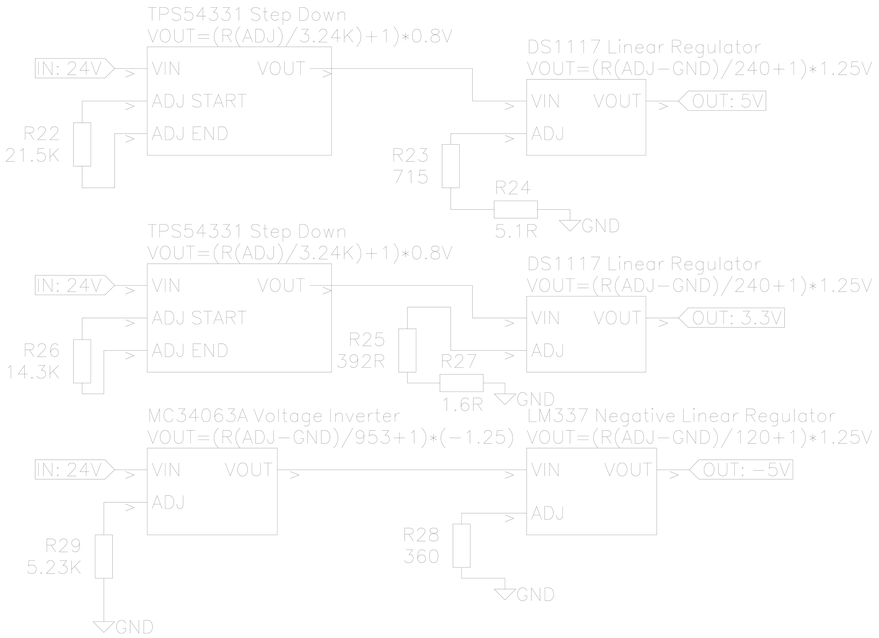
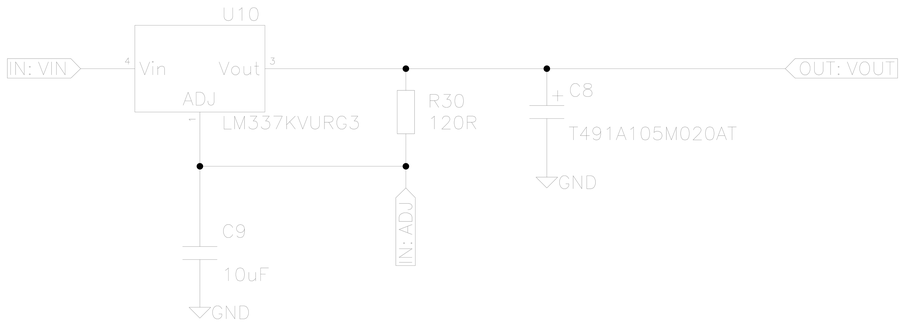

Power
5V
24V
3.3V
−5V
GND
1 Mux
VOUT=Selected 1 * 137 * EN
VOUT
U1A
CD4069
EN'
S0
S1
S2
IN0
IN1
IN2
IN3
IN4
IN5
IN6
IN7
REG2
REG3
REG4
DG128−5.0 2 pin terminal
J1
J2
J3
J4
J5
J6
J7
J8
V MUX
VOUT = SELECTED VIN * EN
U1B
U1C
IN 0.0
IN 0.1
IN 1.0
IN 1.1
R Mux
VOUT = (Selected R/1Meg + 1)*3.3V
R1
10K
C1
0.1UF
SS14
D1
SR0−SRCLR
SR−SAVE
SR−IN
SR−SHIFT
SRCLR
RCLK
SER
SRCLK
OE
QA
QB
QC
QD
QE
QF
QG
QH
QH'
R2
953
R3
R4
R5
R6
R7
R8
TL084
U3A
U3B
U3C
Static R Selector
0=0,1=10K,2=100K,3=1Meg
RS
RE

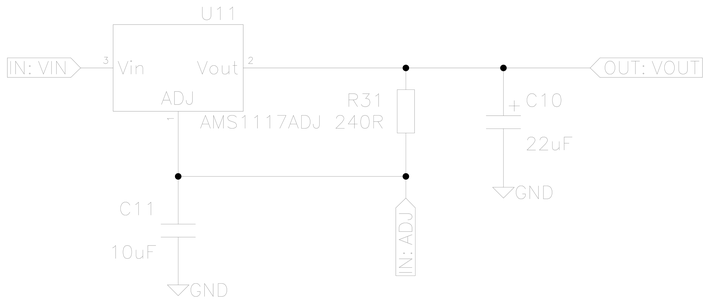
GND
R21
137
IN: IN0
TL084
U8D
GND
R20
137
IN: IN1
TL084
U8C
GND
R19
137
IN: IN2
TL084
U8B
GND
R18
137
IN: IN3
TL084
U8A
GND
R17
137
IN: IN4
TL084
U7D
GND
R16
137
IN: IN5
TL084
U7C
GND
IN: 3.3V
GND
OUT: VOUT
IN: EN!
IN: S0
IN: S1
IN: S2
GND
VCC
VEE
Z
E
S0
S1
S2
GND
Y0
Y1
Y2
Y3
Y4
Y5
Y6
Y7



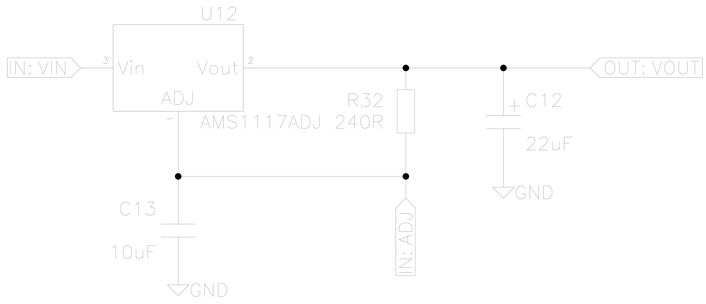
Sheet Sheet	Number 3/13
Project Data Logger 2	Revision 1
Drawn by cakit	
Date 2025-02-25	



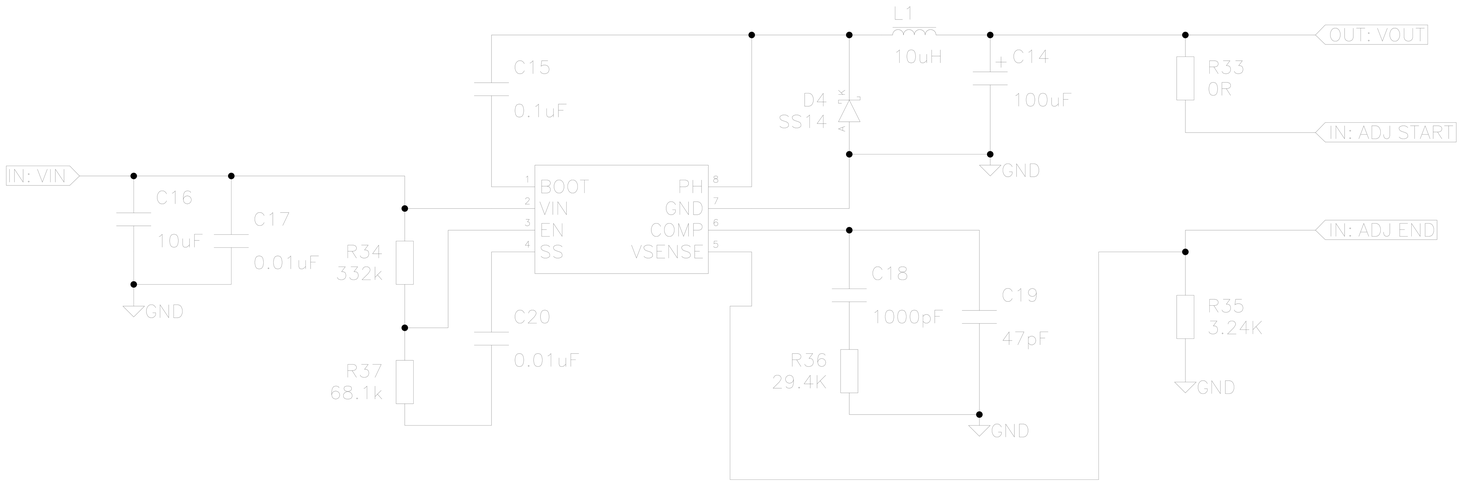
Sheet Sheet	Number 4/13
Project Data Logger 2	Revision 1
Drawn by cakit	
Date 2025-02-25	



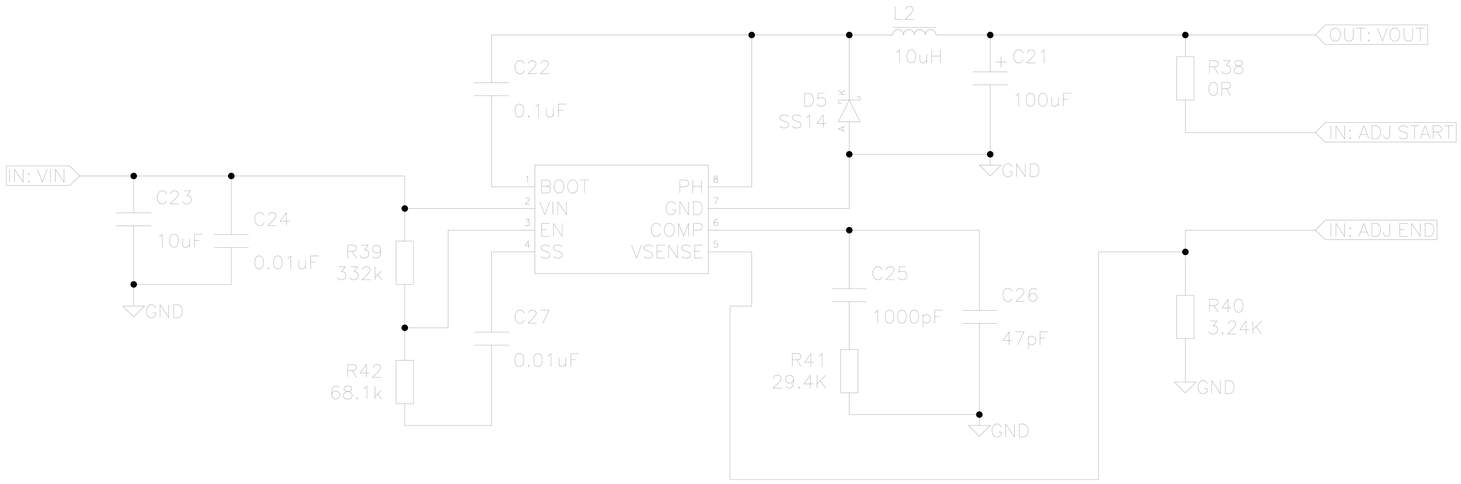
Sheet Sheet	Number 5/13
Project Data Logger 2	Revision 1
Drawn by cakit	
Date 2025-02-25	



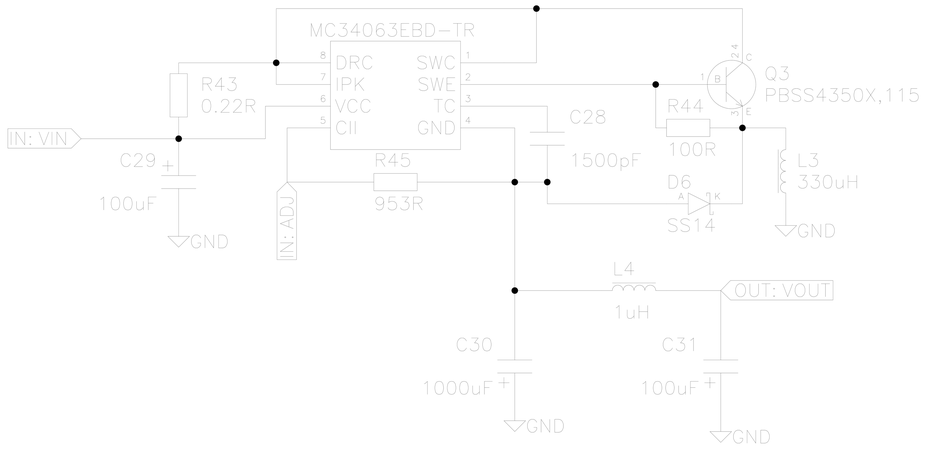
Sheet Sheet	Number 6/13
Project Data Logger 2	Revision 1
Drawn by cakit	
Date 2025-02-25	



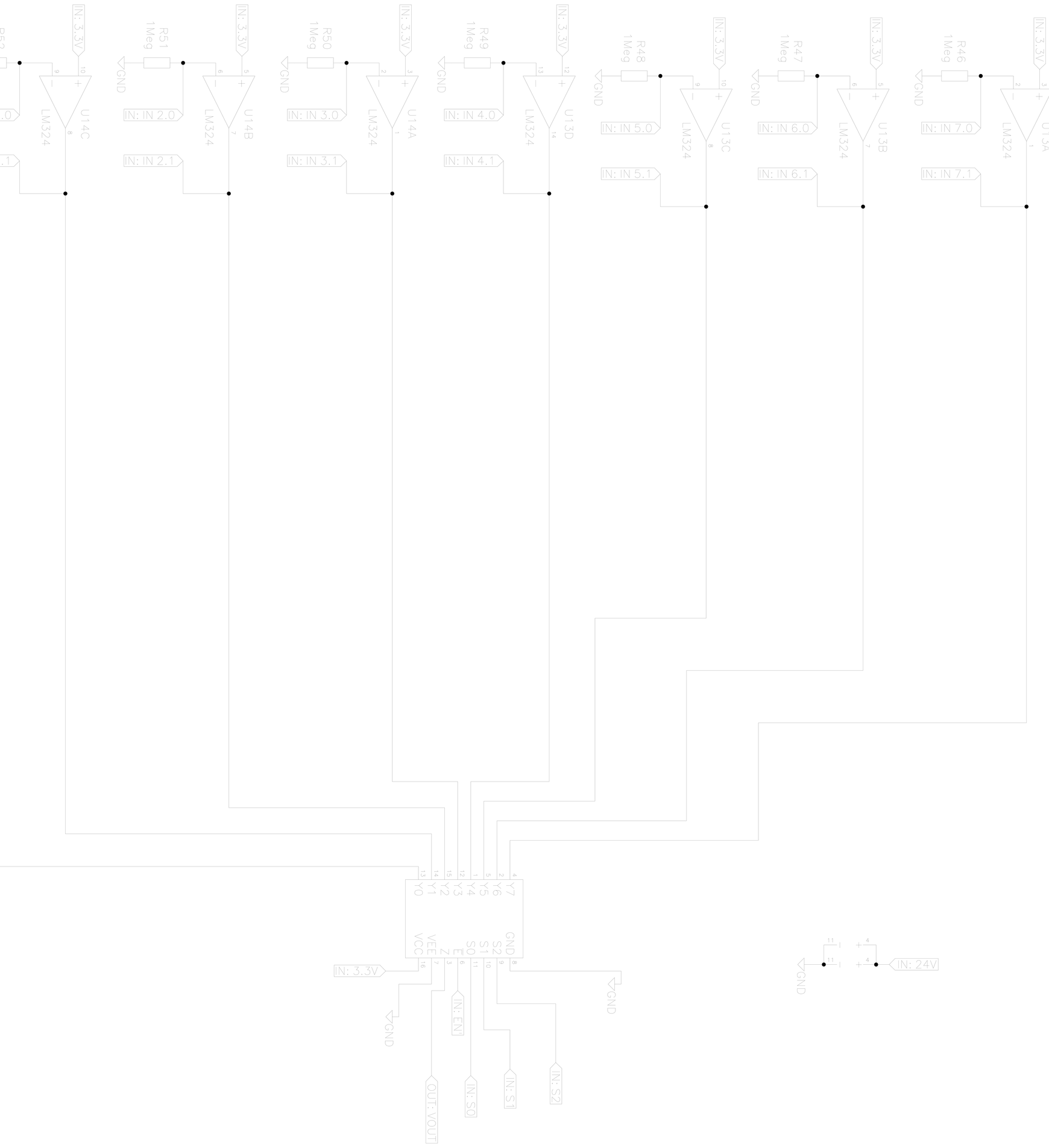
Sheet Sheet	Number 7/13
Project Data Logger 2	Revision 1
Drawn by cakit	
Date 2025-02-25	

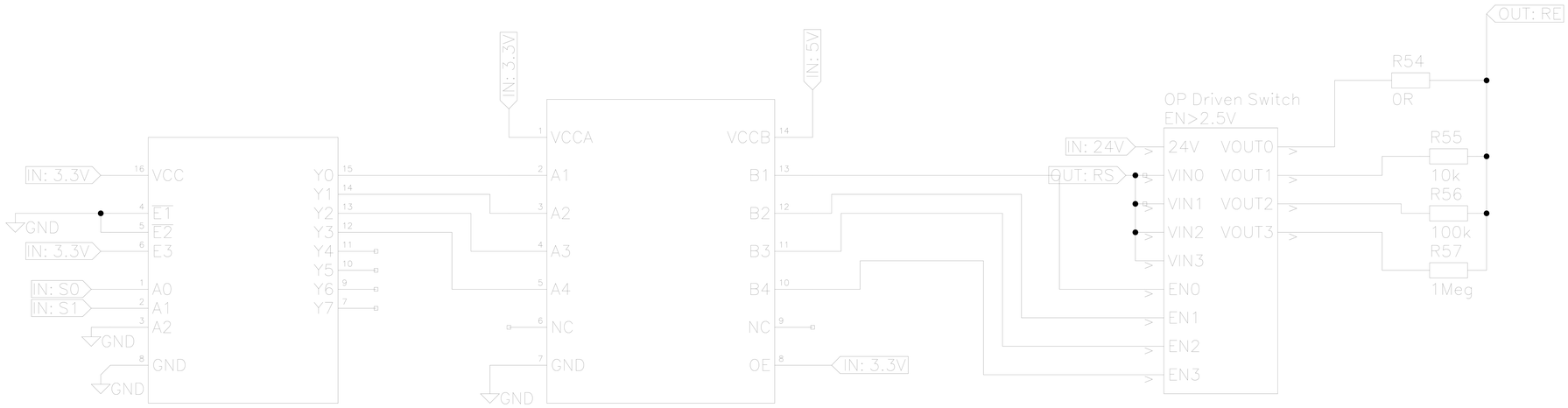


Sheet: Sheet	Number: 8/13
Project: Data Logger 2	Revision: 1
Drawn by: cakit	
Date: 2025-02-25	

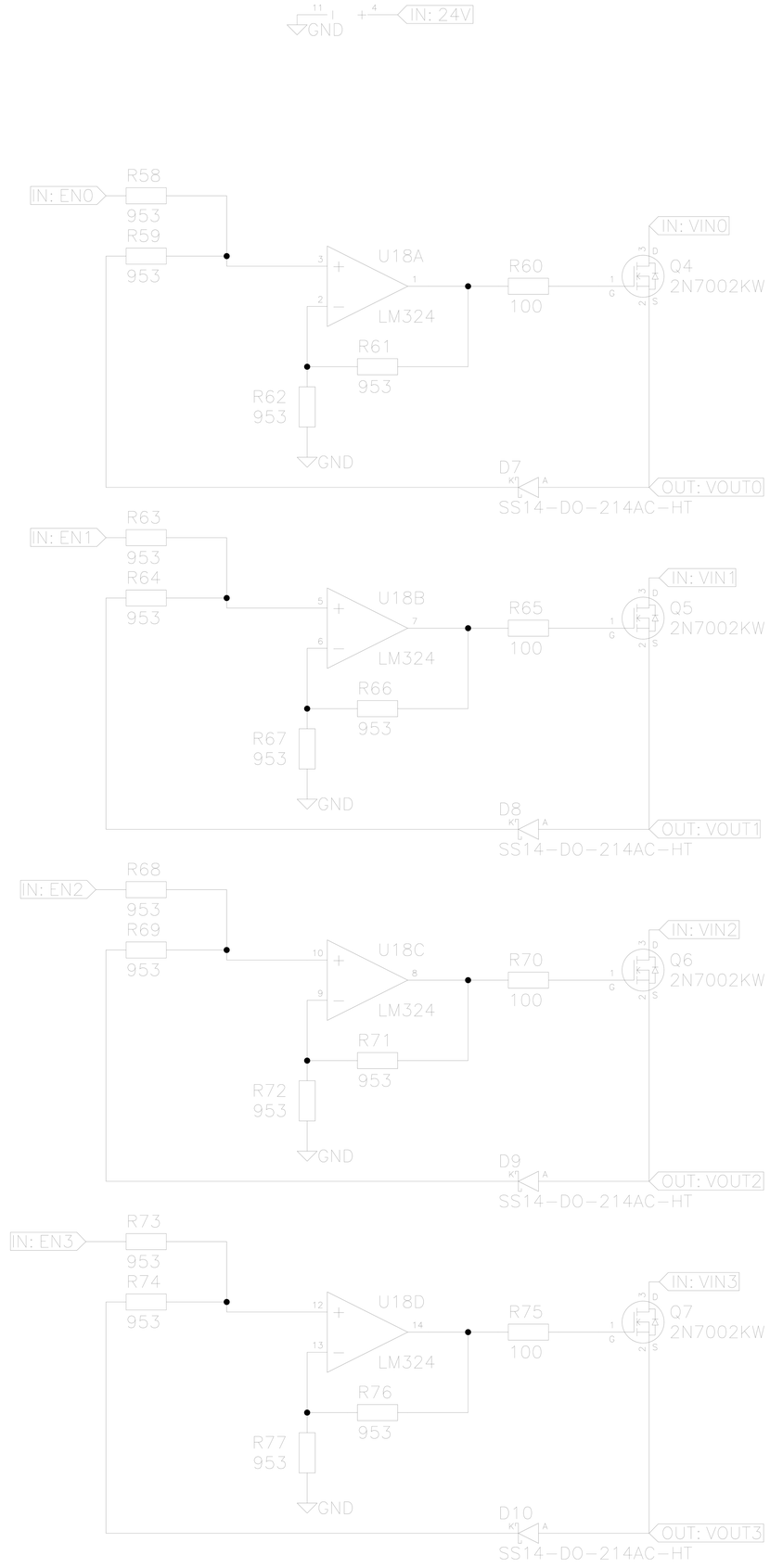


Sheet Sheet	Number 9/13
Project Data Logger 2	Revision 1
Drawn by cakit	
Date 2025-02-25	

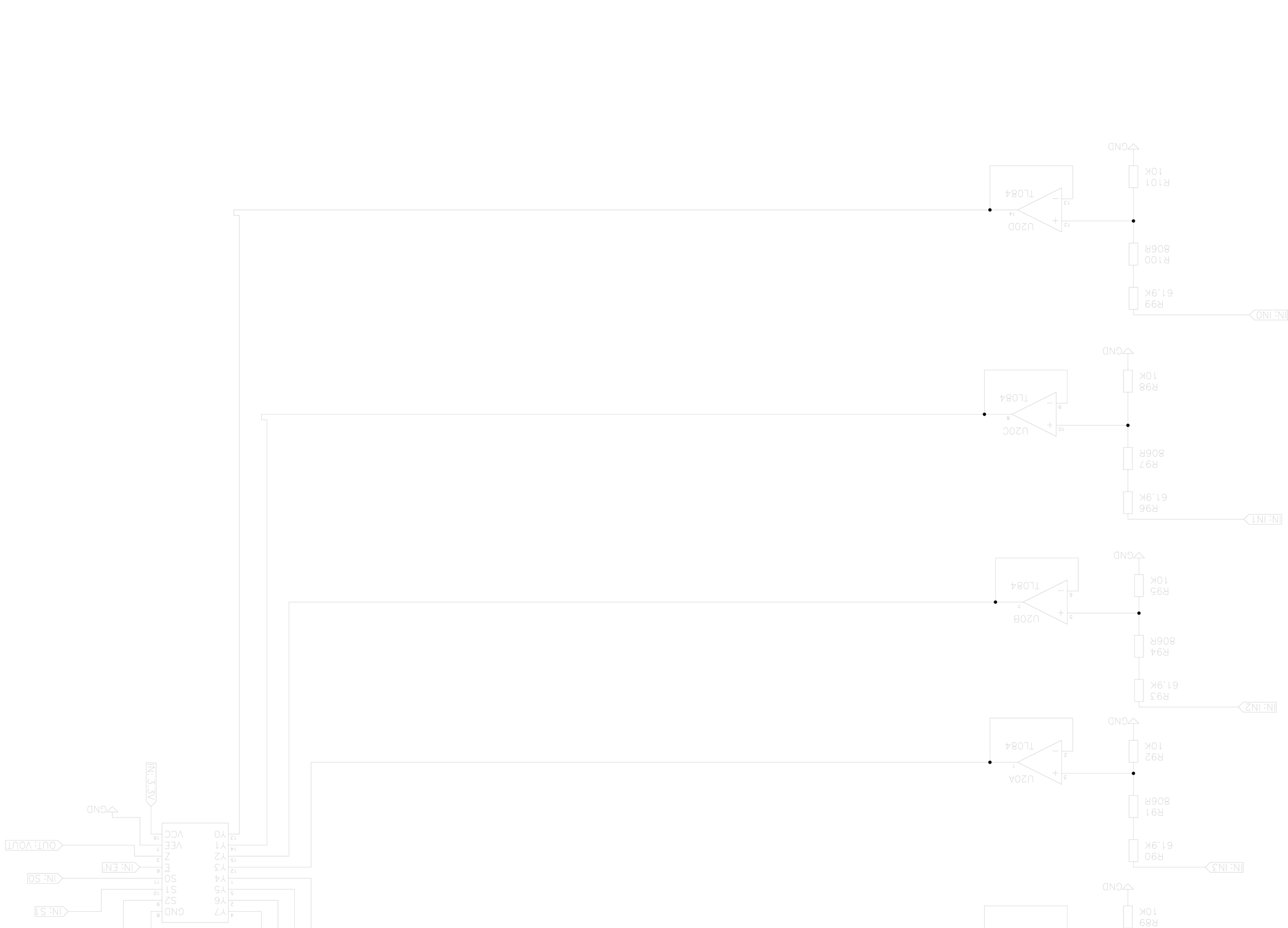

IN: 3.3V
R46
1Meg
GND
IN: IN 7.0
U13A
LM324
IN: IN 7.1
R47
1Meg
IN: IN 6.0
U13B
IN: IN 6.1
R48
1Meg
IN: IN 5.0
U13C
IN: IN 5.1
R49
1Meg
IN: IN 4.0
U13D
IN: IN 4.1
R50
1Meg
IN: IN 3.0
U14A
IN: IN 3.1
R51
1Meg
IN: IN 2.0
U14B
IN: IN 2.1
U14C
Y0
Y1
Y2
Y3
Y4
Y5
Y6
Y7
VCC
VEE
E
S0
S1
S2
GND
IN: EN1
IN: S0
IN: S1
IN: S2
OUT: VOUT
IN: 24V



Sheet: Sheet	Number: 11/13
Project: Data Logger 2	Revision: 1
Drawn by: cakit	
Date: 2025-02-25	



Sheet Sheet	Number 12/13
Project Data Logger 2	Revision 1
Drawn by cakit	
Date 2025-02-25	


GND
R101
10K
TL084
U20D
R100
806R
R99
61.9K
IN: IN0
R98
10K
U20C
R97
806R
R96
61.9K
IN: IN1
R95
10K
U20B
R94
806R
R93
61.9K
IN: IN2
R92
10K
U20A
R91
806R
R90
61.9K
IN: IN3
R89
10K
IN: 3.3V
OUT: VOUT
IN: EN1
IN: S0
IN: S1
VCC
VEE
Z
E
S0
S1
S2
GND
Y0
Y1
Y2
Y3
Y4
Y5
Y6
Y7