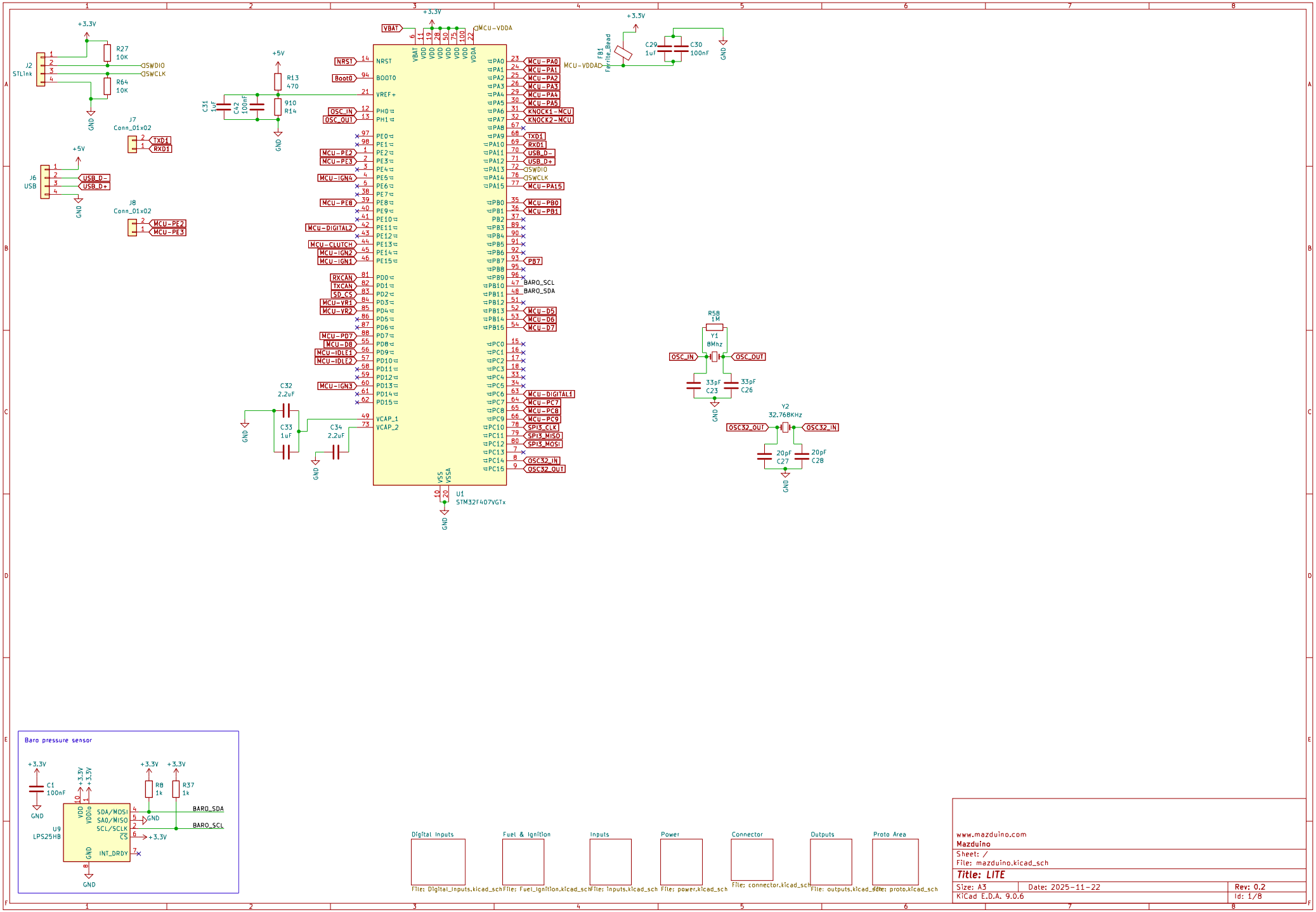
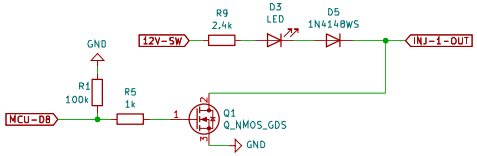
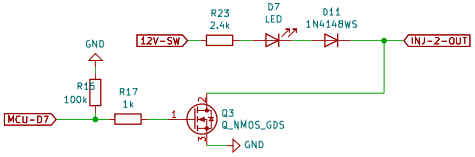

+3.3V
R27
10K
J2
STLink
SWDIO
SWCLK
R64
10K
GND
+5V
R13
470
C31
1uF
C42
100nF
910
R14
GND
J7
Conn_01x02
TXD1
RXD1
+5V
J6
USB
USB_D-
USB_D+
GND
J8
Conn_01x02
MCU-PE2
MCU-PE3
+3.3V
VBAT
MCU-VDDA
NRST
BOOT0
VREF+
OSC_IN
OSC_OUT
MCU-PE2
MCU-PE3
MCU-IGN4
MCU-PE8
MCU-DIGITAL2
MCU-CLUTCH
MCU-IGN2
MCU-IGN1
RXCAN
TXCAN
SD_CS
MCU-VR1
MCU-VR2
MCU-PD7
MCU-DB
MCU-IDLE1
MCU-IDLE2
MCU-IGN3
VCAP_1
VCAP_2
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PC8
PC9
PC10
PC11
PC12
PC13
PC14
PC15
MCU-PA0
MCU-PA1
MCU-PA2
MCU-PA3
MCU-PA4
MCU-PA5
KNOCK1-MCU
KNOCK2-MCU
TXD1
RXD1
USB_D-
USB_D+
SWDIO
SWCLK
MCU-PA15
MCU-PB0
MCU-PB1
PB7
BARO_SCL
BARO_SDA
MCU-D5
MCU-D6
MCU-D7
MCU-DIGITAL1
MCU-PC7
MCU-PC8
MCU-PC9
SPI3_CLK
SPI3_MISO
SPI3_MOSI
OSC32_IN
OSC32_OUT
VSS
VSSA
U1
STM32F407VGTx
C32
2.2uF
C33
1uF
C34
2.2uF
GND
+3.3V
FB1
Ferrite_Bead
MCU-VDDA
C29
1uF
C30
100nF
GND
R58
1M
Y1
8Mhz
OSC_IN
OSC_OUT
33pF
C23
33pF
C26
GND
Y2
32.768KHz
OSC32_OUT
OSC32_IN
20pF
C27
20pF
C28
GND
Baro pressure sensor
+3.3V
C1
100nF
GND
U9
LPS25HB
VDD
VDDio
SDA/MOSI
SAO/MISO
SCL/SCLK
CS
GND
INT_DRDY
+3.3V
R8
1k
R37
1k
GND
+3.3V
BARO_SDA
BARO_SCL
Digital Inputs
File: Digital_Inputs.kicad_sch
Fuel & Ignition
File: Fuel_Ignition.kicad_sch
Inputs
File: Inputs.kicad_sch
Power
File: power.kicad_sch
Connector
File: connector.kicad_sch
Outputs
File: outputs.kicad_sch
Proto Area
File: proto.kicad_sch
www.mazduino.com
Mazduino
Sheet: /
File: mazduino.kicad_sch
Title: LITE
Size: A3
Date: 2025-11-22
Rev: 0.2
KiCad E.D.A. 9.0.6
Id: 1/8

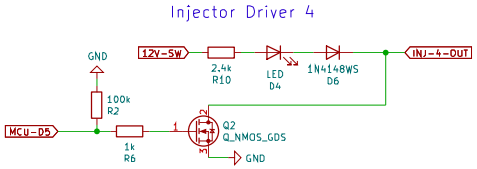
Injector Driver 1



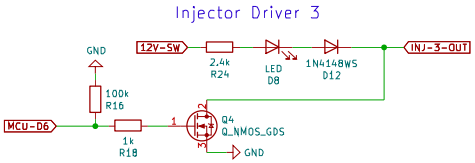
Injector Driver 2



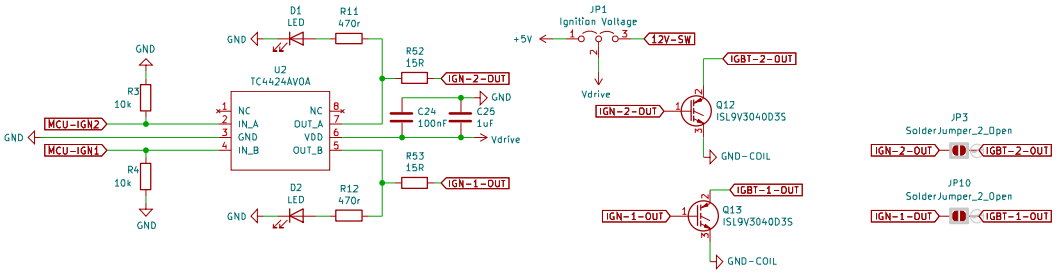
Injector Driver 4



Injector Driver 3



Ignition Driver 1

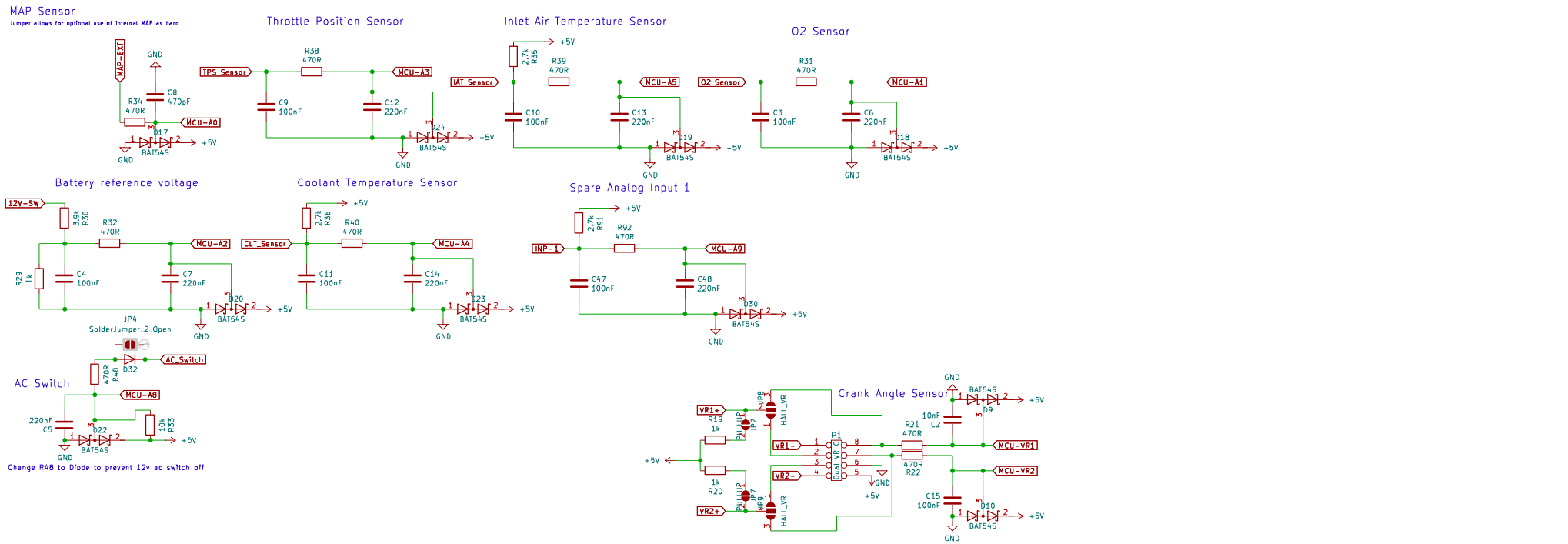


www.mazduino.com
Mazduino

Sheet: /Fuel & Ignition/
File: Fuel_Ignition.kicad_sch

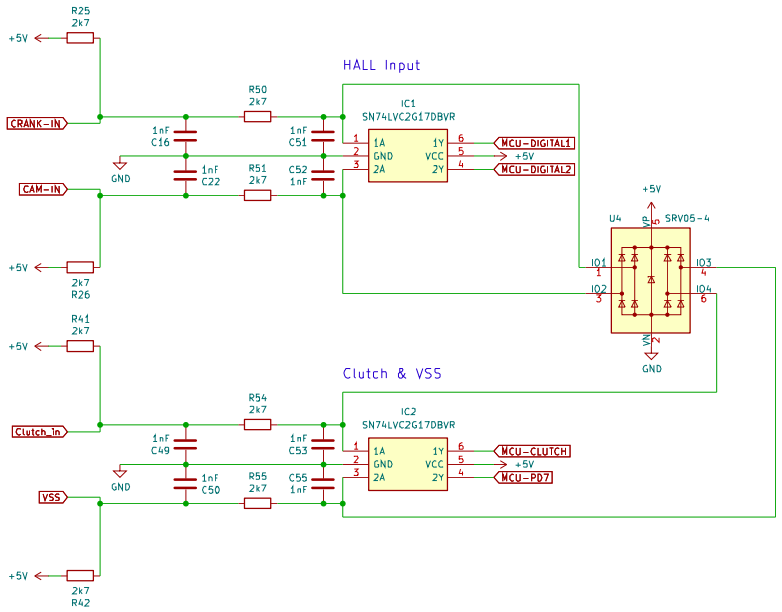
Title: LITE

Size: A3	Date: 2025-12-08	Rev: 0.2
KiCad E.D.A. 9.0.6		Id: 2/8



www.mazduino.com
Mazduino

Sheet: /Inputs/		
File: inputs.kicad_sch		
Title: LITE		
Size: A3	Date: 2025-11-22	Rev: 0.2
KiCad E.D.A. 9.0.6		Id: 3/8

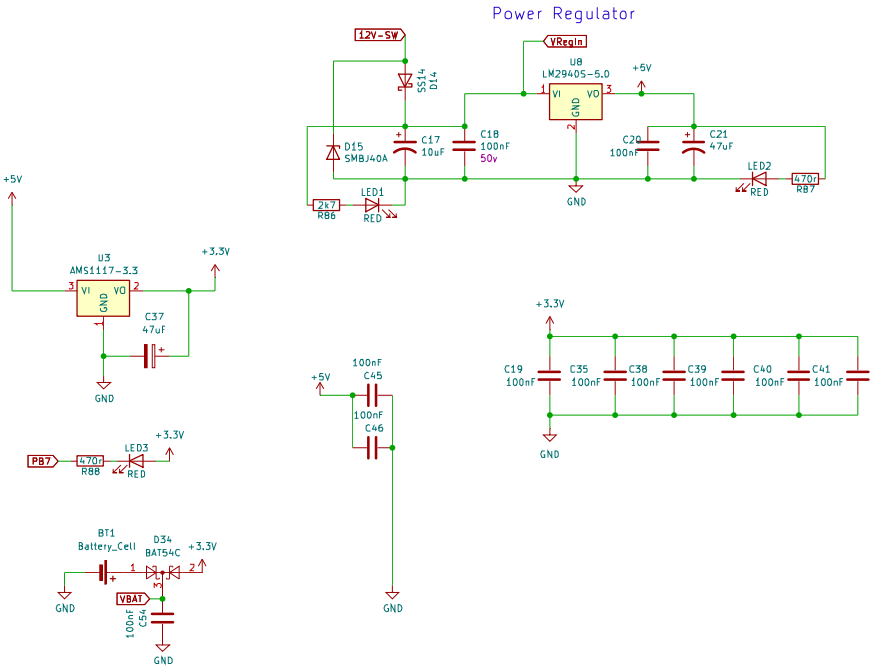


www.mazduino.com
Mazduino

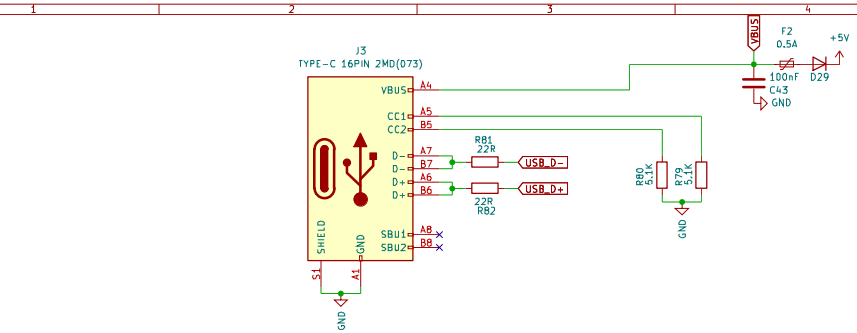
Sheet: /Digital Inputs/
File: Digital_Inputs.kicad_sch

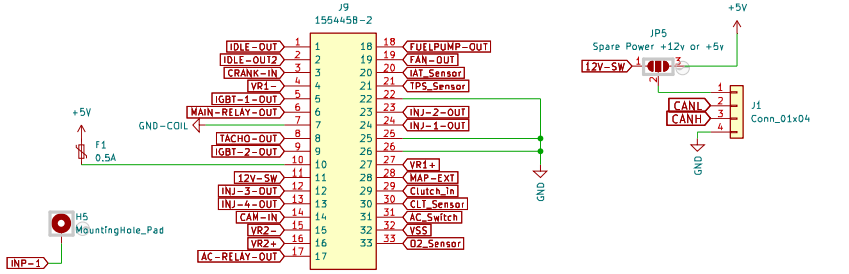
Title: LITE

Size: A3	Date: 2025-11-22	Rev: 0.2
KiCad E.D.A. 9.0.6		Id: 4/8



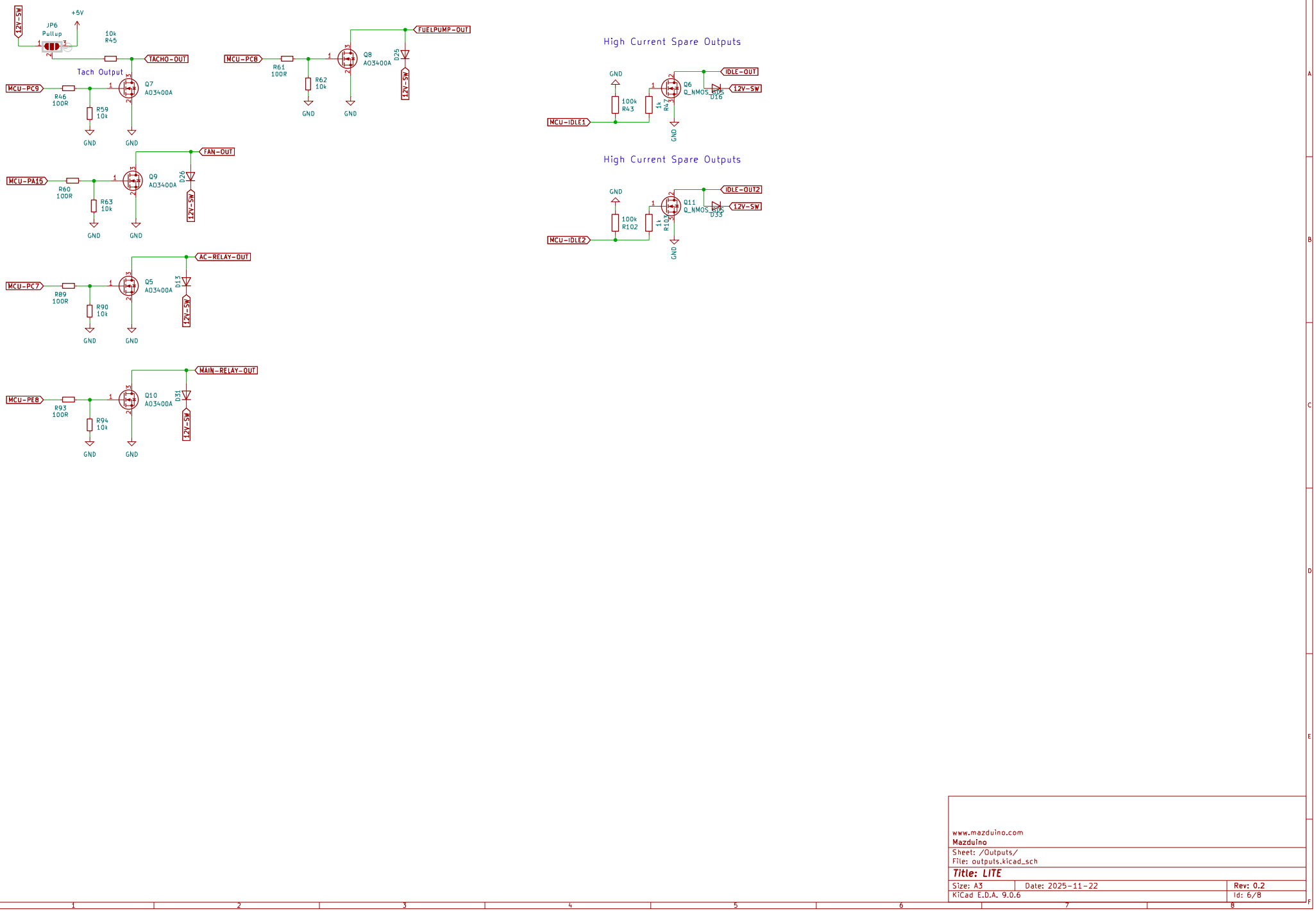
www.mazduino.com **Mazduino**		
Sheet: /Power/ File: power.kicad_sch		
Title: LITE		
Size: A3	Date: 2025-11-22	Rev: 0.2
KiCad E.D.A. 9.0.6		Id: 4/8





www.mazduino.com
Mazduino

Sheet: /Connector/ File: connector.kicad_sch		
Title: LITE		
Size: A3	Date: 2025-11-22	Rev: 0.2
KiCad E.D.A. 9.0.6		Id: 5/8

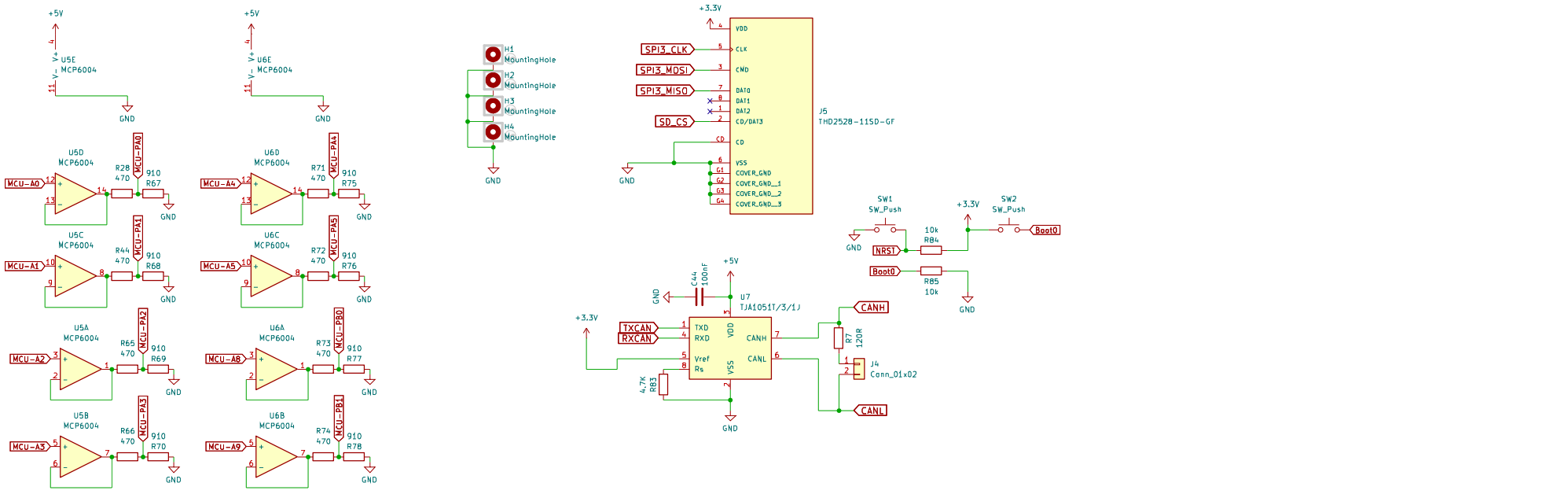


www.mazduino.com
Mazduino

Sheet: /Outputs/
File: outputs.kicad_sch

Title: LITE

Size: A3	Date: 2025-11-22	Rev: 0.2
KiCad E.D.A. 9.0.6		Id: 6/8



www.mazduino.com
Mazduino

Sheet: /Proto Area/
File: proto.kicad_sch

Title: LITE

Size: A3	Date: 2025-11-22	Rev: 0.2
KiCad E.D.A. 9.0.6		Id: 7/8