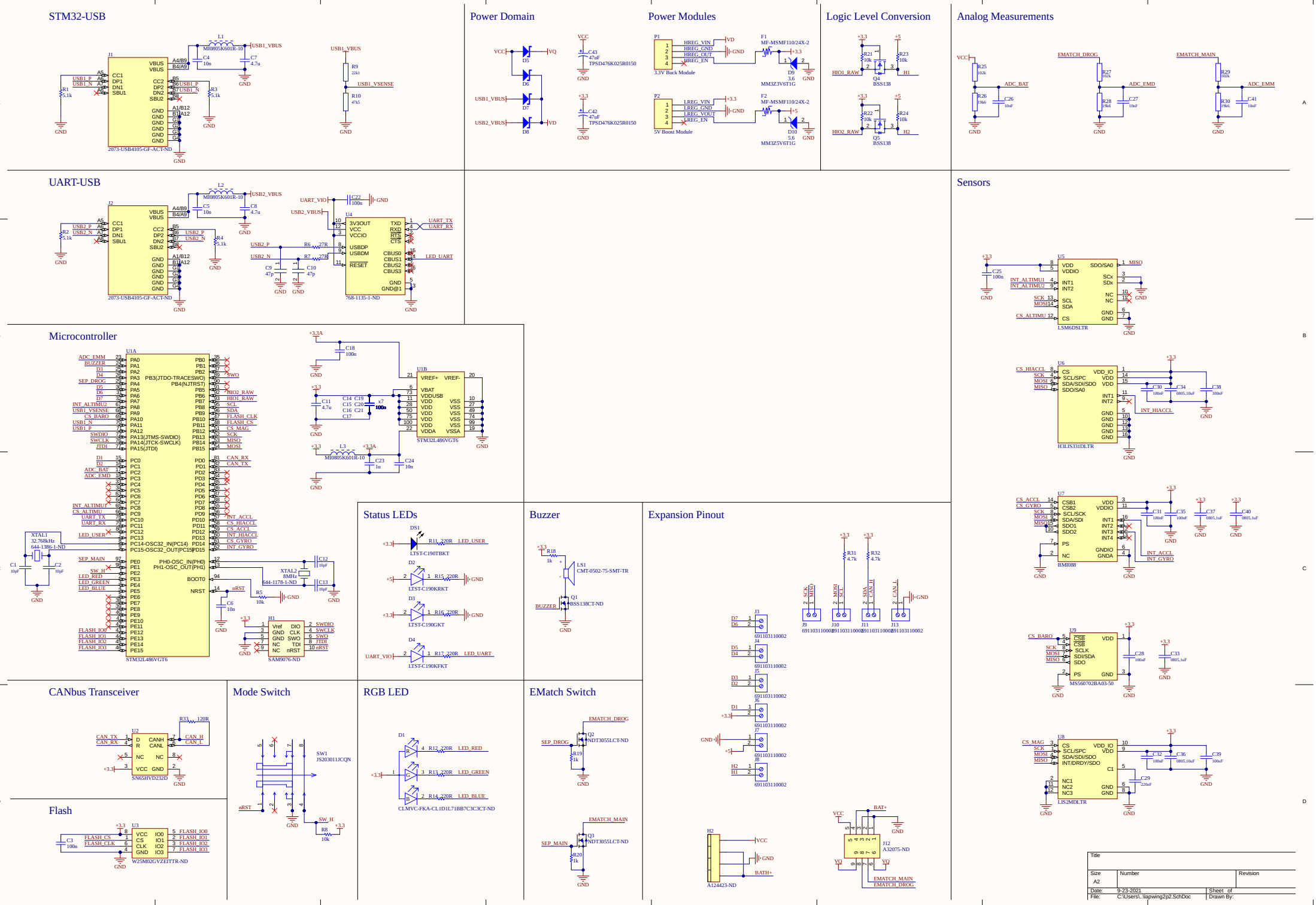
STM32-USB
Power Domain
Power Modules
Logic Level Conversion
Analog Measurements
UART-USB
Sensors
Microcontroller
Status LEDs
Buzzer
Expansion Pinout
CANbus Transceiver
Mode Switch
RGB LED
EMatch Switch
Flash
Title
Size
A2
Number
Revision
Date: 9-23-2021
Sheet of
File: C:\Users\..\lapwing2p2.SchDoc
Drawn By:

SW+
SW-
BAT-
BAT+
H1
H2
5V
GND
3V3
D1
D2
D3
D4
D5
D6
D7
5V-I/O
POWER
EXPANSION I/O
SPI
I2C
CAN
SCK
SI
SO
SCL
SDA
H
L
GND
5V Boost
3.3V Buck
Buzzer
LAPWINGLY
Mag
Gyro
High-G
IMU1
IMU2
U2
ACT
NRM
RST
SWD
USB-STM32
USB-UART
MAIN
DEO

SW+
SW-
BAT-
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H1
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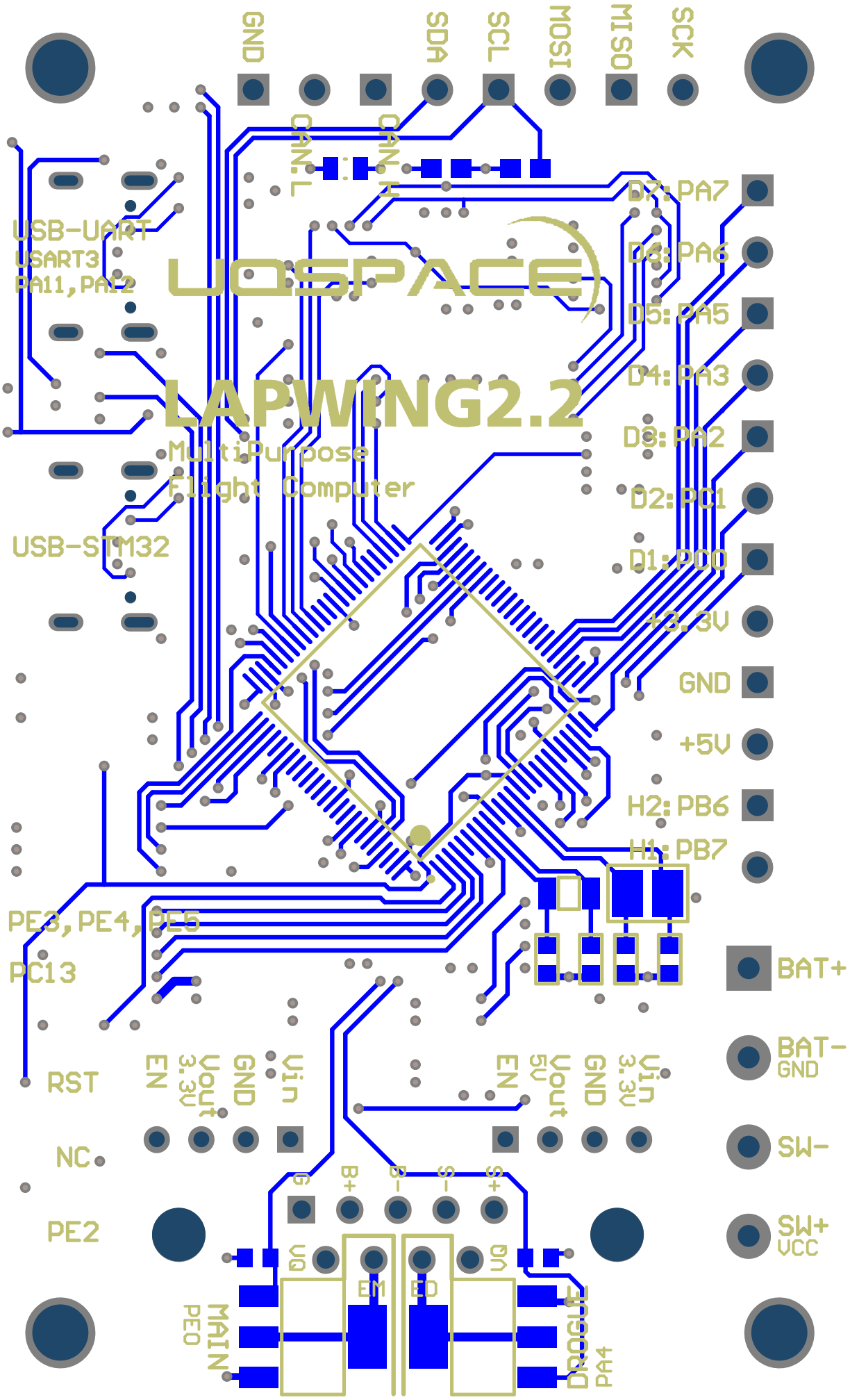
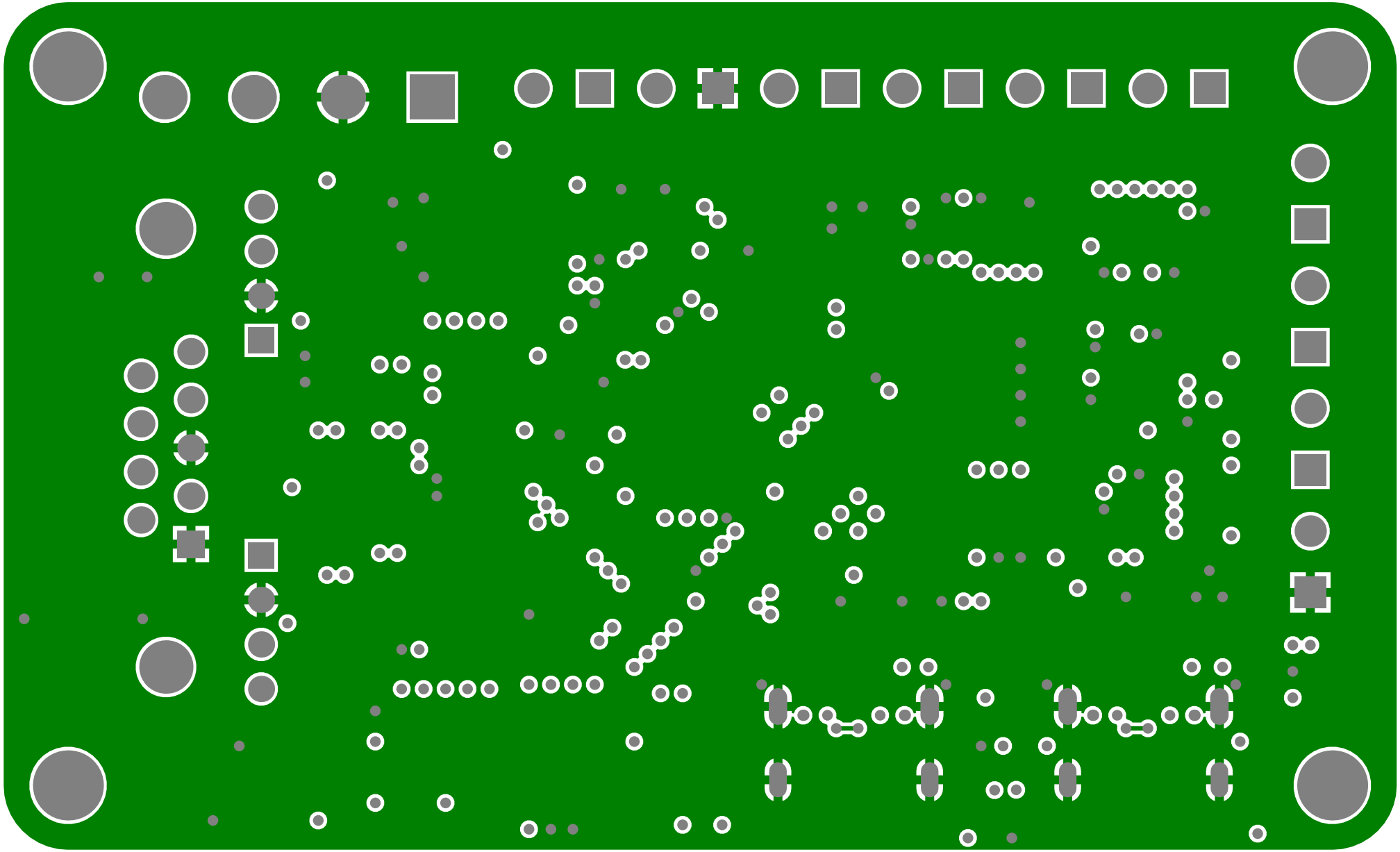
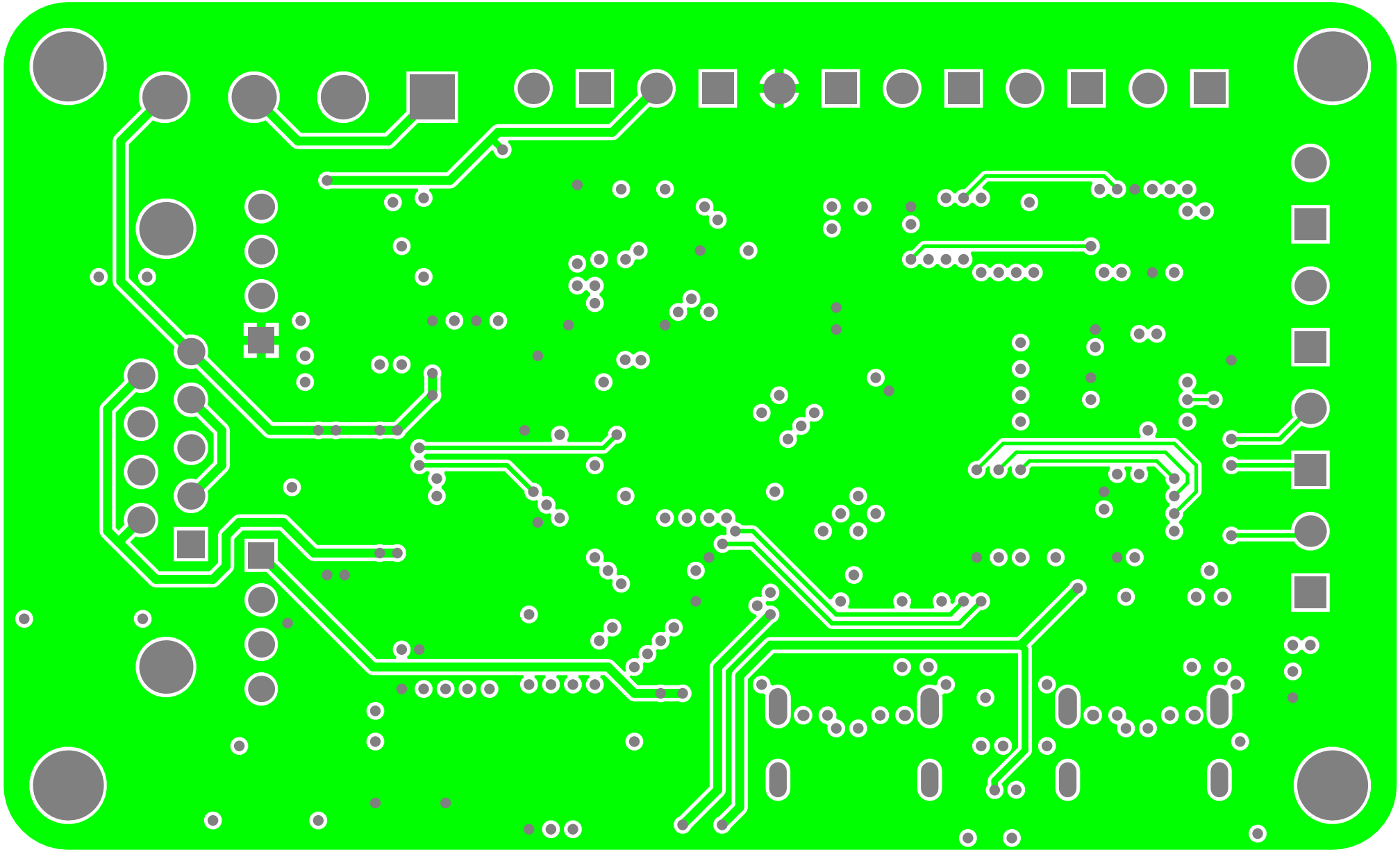
L
GND
Y
X
Z
Baro
IMU2
5V Boost
3.3V Buck
Buzzer
LAPWING22
2021
ACT
NRM
RST
SWD
USB-STM32
USB-UART


GND
SDA
SCL
MOSI
MISO
SCK
CAN-L
CAN-H
USB-UART
USART3
PA11,PA12
UOSPACE
LAPWING2.2
MultiPurpose
Flight Computer
USB-STM32
D7:PA7
D6:PA6
D5:PA5
D4:PA3
D3:PA2
D2:PC1
D1:PC0
+3.3V
GND
+5V
H2:PB6
H1:PB7
PE3,PE4,PE5
PC13
BAT+
BAT-
GND
RST
EN
Vout
3.3V
GND
Vin
EN
Vout
5V
GND
Vin
3.3V
NC
SW-
PE2
SW+
VCC
G
B+
B-
S-
S+
VD
EM
ED
VD
MAIN
PE0
DOOGLE
PA4





LAPWING2.2
2021
UDS
5V Boost
3.3V Buck
Buzzer
5V-I/O
POWER
EXPANSION I/O
SW+
SW-
BAT-
BAT+
H1
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J3
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J5
J6
J7
J8
J9
J10
J11
J13
J12
P1
P2
U2
U4
U5
U6
U7
U8
U9
Q1
Q4
Q5
LS1
IMS
DS1
F1
F2
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
R1
R2
R3
R4
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R6
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R11
R13
R14
R15
R16
R17
R18
R21
R22
R23
R24
R25
R26
R27
R28
R29
R30
C3
C4
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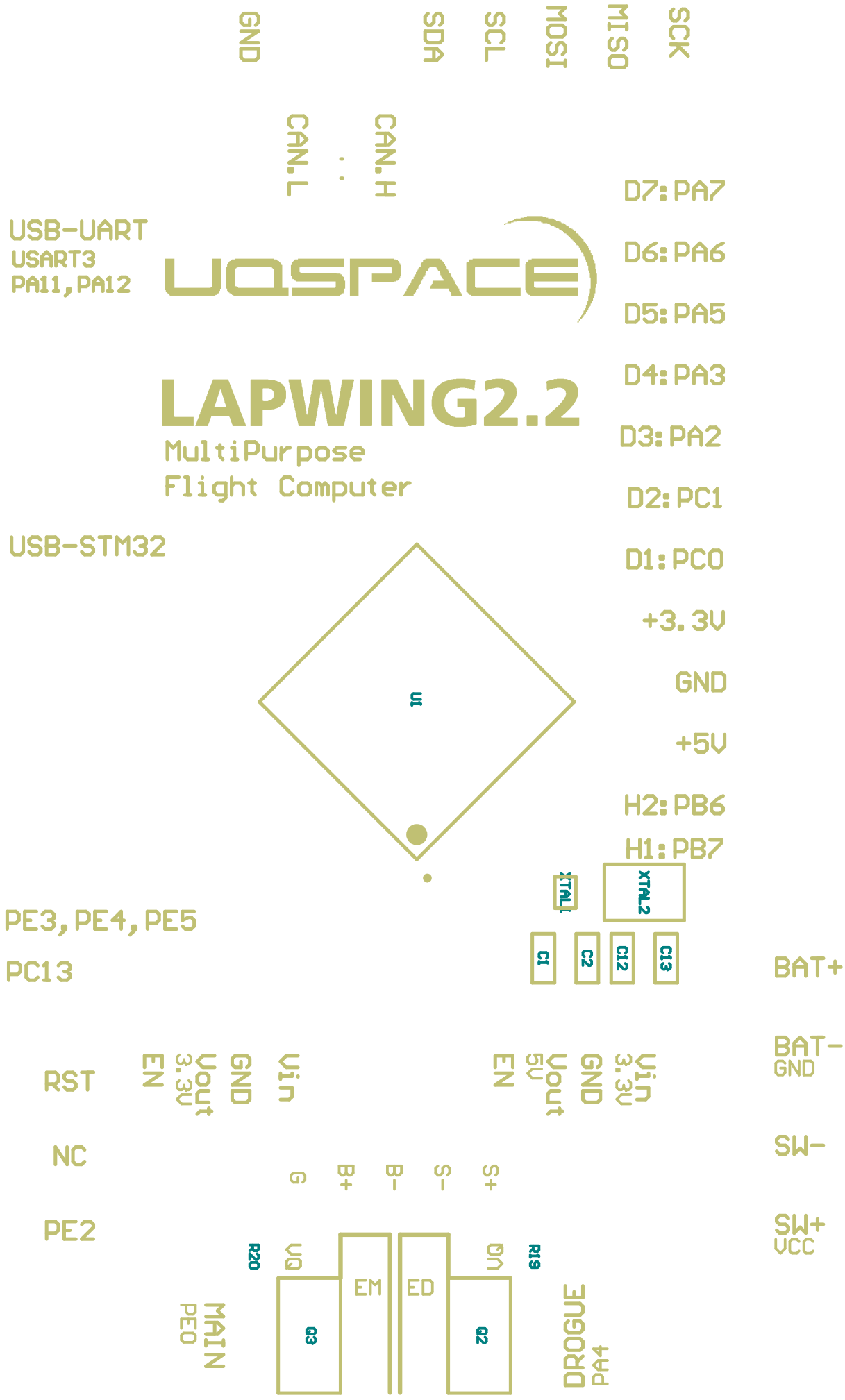
C34
C36
C38
C39
C40
C41
L1
L2
L3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B+
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S+
R20
UQ
EM
ED
UQ
R19
Q3
Q2
MAIN
PE0
DROGUE
PA4