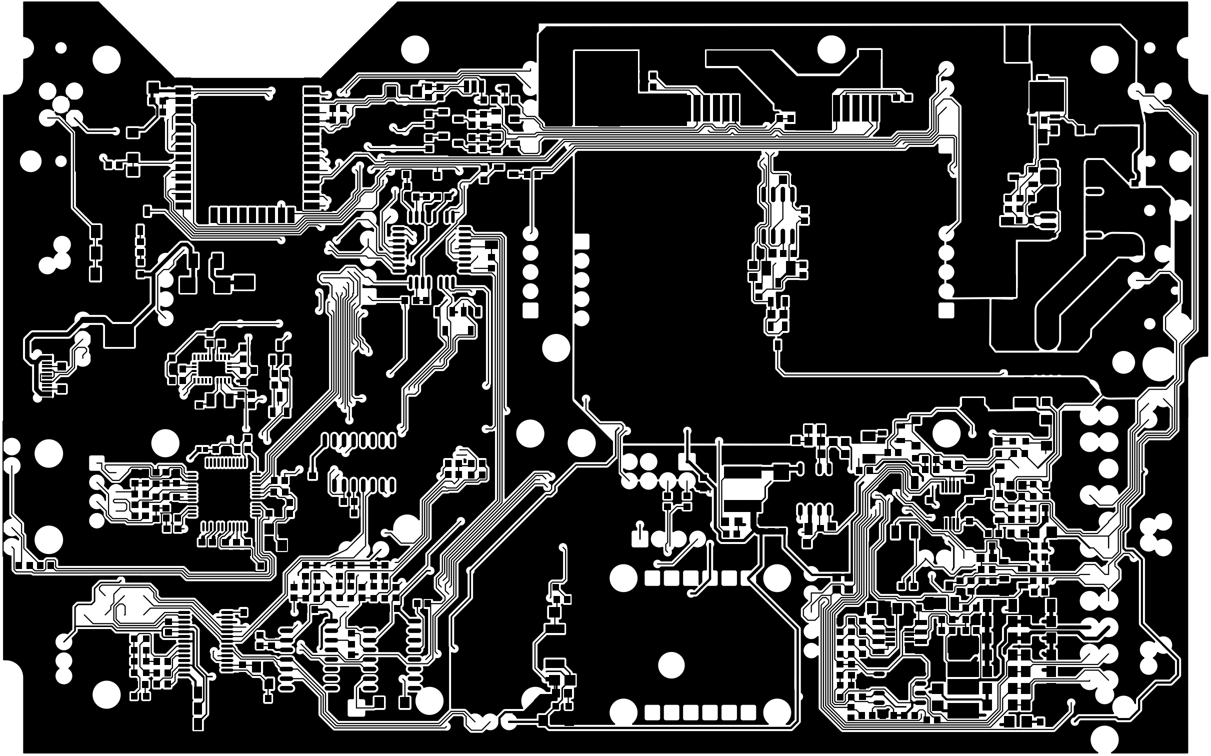
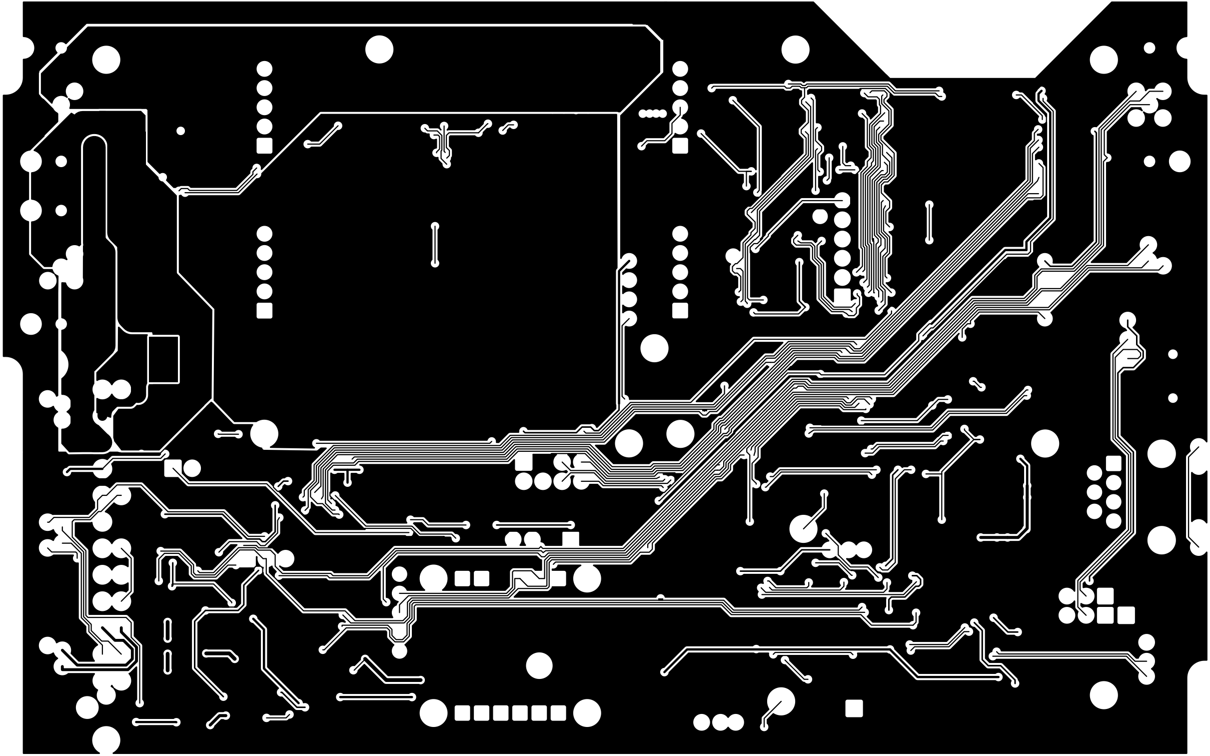
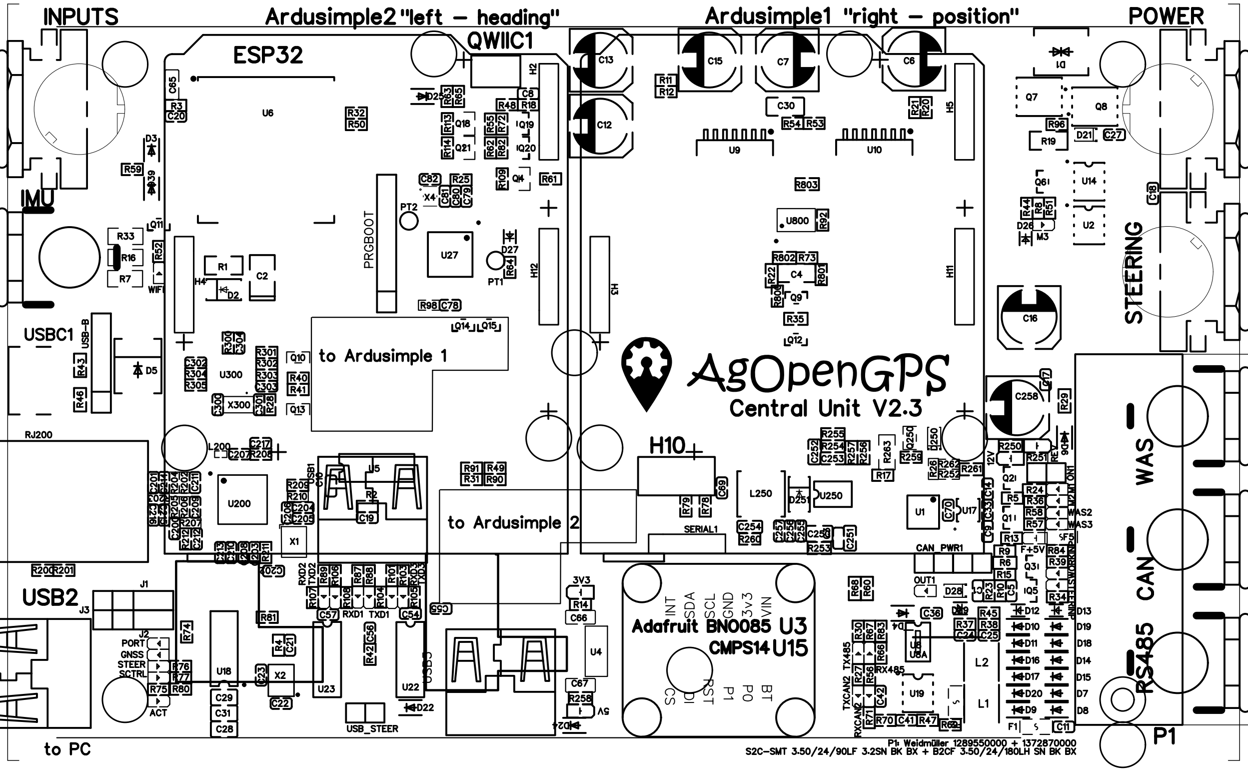
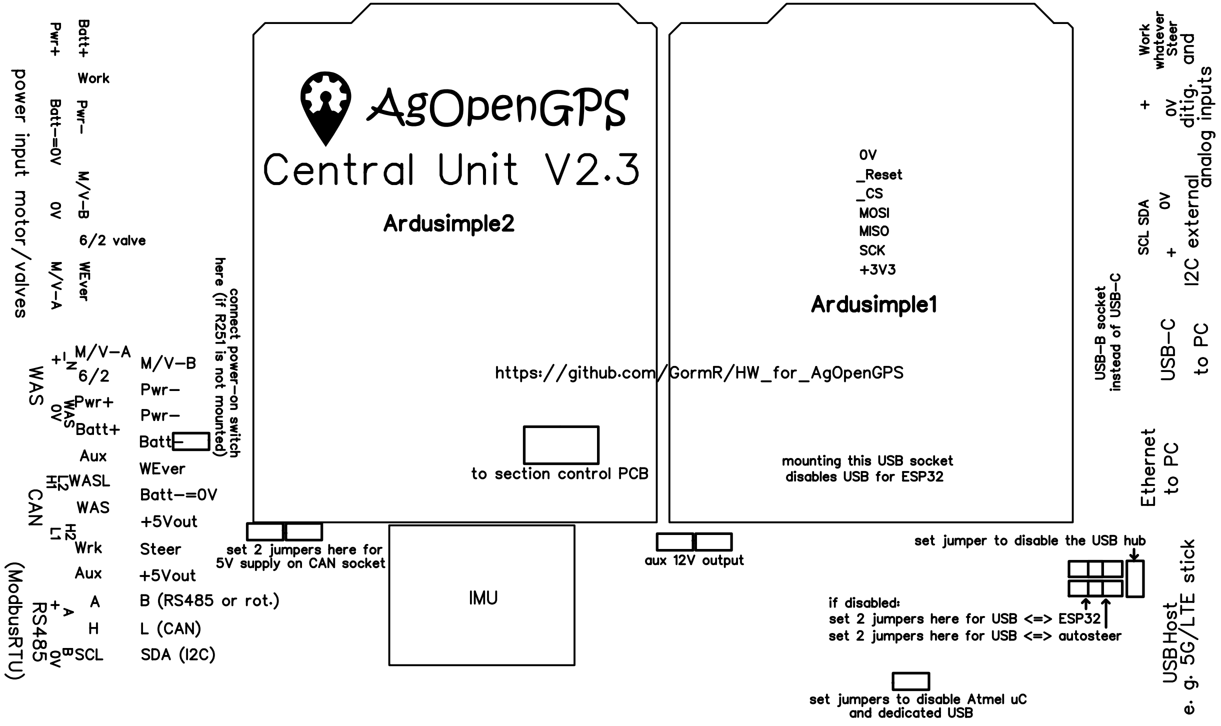





INPUTS
Ardusimple2 "left – heading"
Ardusimple1 "right – position"
POWER
QWIIC1
ESP32
U6
IMU
USBC1
USB-B
RJ200
USB2
J1
J2
J3
PORT
GNSS
STEER
SCTRL
ACT
to PC
PRGBOOT
PT1
PT2
WIFI
to Ardusimple 1
to Ardusimple 2
U300
X300
U200
L200
U5
X1
X2
U18
U22
U23
USB3
USB_STEER
RXD2
TXD2
RXD1
TXD1
U27
X4
H2
H3
H4
H5
H10
H11
H12
C13
C12
C15
C7
C6
C30
U9
U10
U800
R803
C4
Q9
R35
Q12
AgOpenGPS
Central Unit V2.3
L250
U250
D251
SERIAL1
Adafruit BNO085 U3
CMPS14 U15
INT
SDA
SCL
GND
3v3
VIN
CS
DI
RST
P1
P0
BT
3V3
5V
U4
U1
U17
CAN
PWR1
OUT1
U6A
U19
L1
L2
F1
TX485
RX485
TXCAN2
RXCAN2
STEERING
WAS
CAN
RS485
P1
C16
C258
Q7
Q8
D1
U14
U2
M3
12V
REV
WAS2
WAS3
F+5V
5F5
WORKIN
STEERSW
D13
D19
D18
D14
D15
D7
D8
D12
D10
D11
D16
D17
D20
D9
P1: Weidmüller 1289550000 + 1372870000
S2C-SMT 3.50/24/90LF 3.2SN BK BX + B2CF 3.50/24/180LH SN BK BX


AgOpenGPS
Central Unit V2.3
Ardusimple2
Ardusimple1
0V
_Reset
_CS
MOSI
MISO
SCK
+3V3
https://github.com/GormR/HW_for_AgOpenGPS
to section control PCB
mounting this USB socket
disables USB for ESP32
power input motor/valves
Pwr+
Batt+
Work
Batt-=0V
Pwr-
M/V-B
0V
6/2 valve
M/V-A
WEver
connect power-on switch
here (if R251 is not mounted)
WAS
+
I
N
WAS
0V
M/V-A
6/2
Pwr+
Batt+
Aux
WASL
WAS
Wrk
Aux
A
H
SCL
M/V-B
Pwr-
Pwr-
Batt-
WEver
Batt-=0V
+5Vout
Steer
+5Vout
B (RS485 or rot.)
L (CAN)
SDA (I2C)
CAN
L2
H1
H2
L1
RS485
(ModbusRTU)
+
A
B
0V
set 2 jumpers here for
5V supply on CAN socket
IMU
aux 12V output
set jumper to disable the USB hub
if disabled:
set 2 jumpers here for USB <=> ESP32
set 2 jumpers here for USB <=> autosteer
set jumpers to disable Atmel uC
and dedicated USB
Work
whatever
Steer
+
0V
ditig. and
analog inputs
I2C external
SCL SDA
0V
+
USB-B socket
instead of USB-C
USB-C
to PC
Ethernet
to PC
USB Host
e. g. 5G/LTE stick