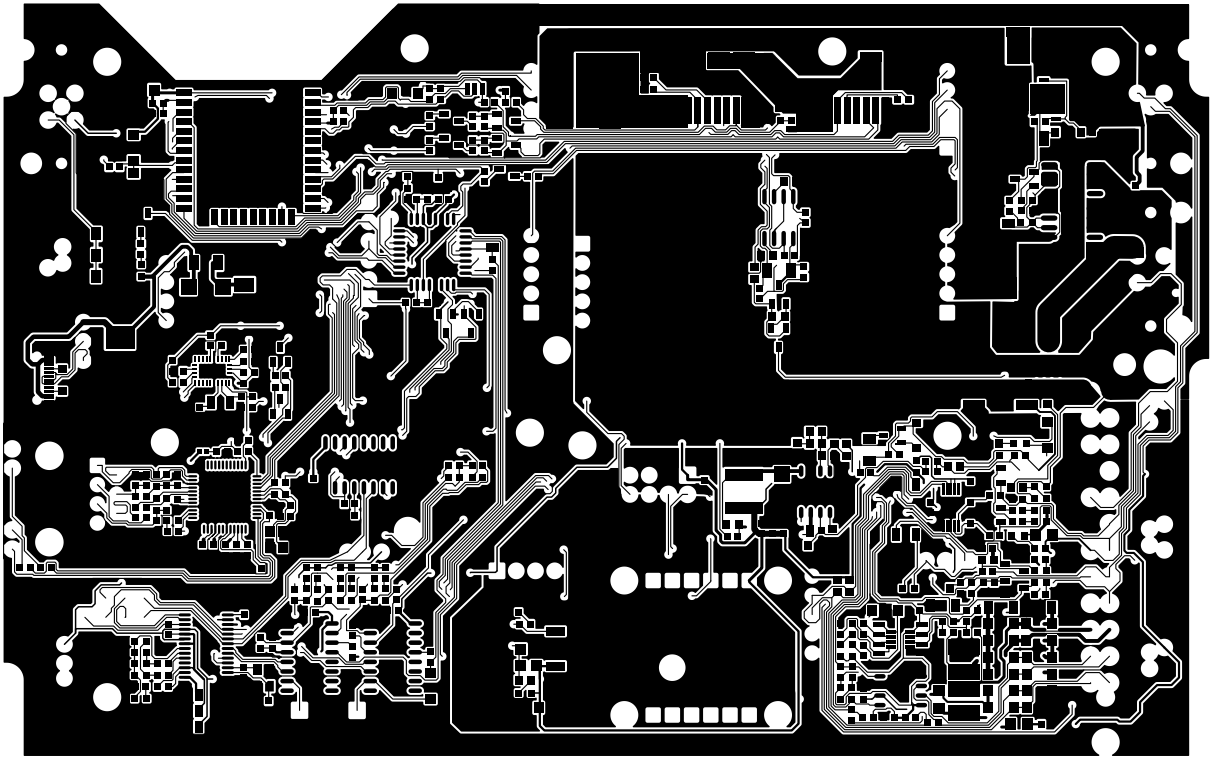
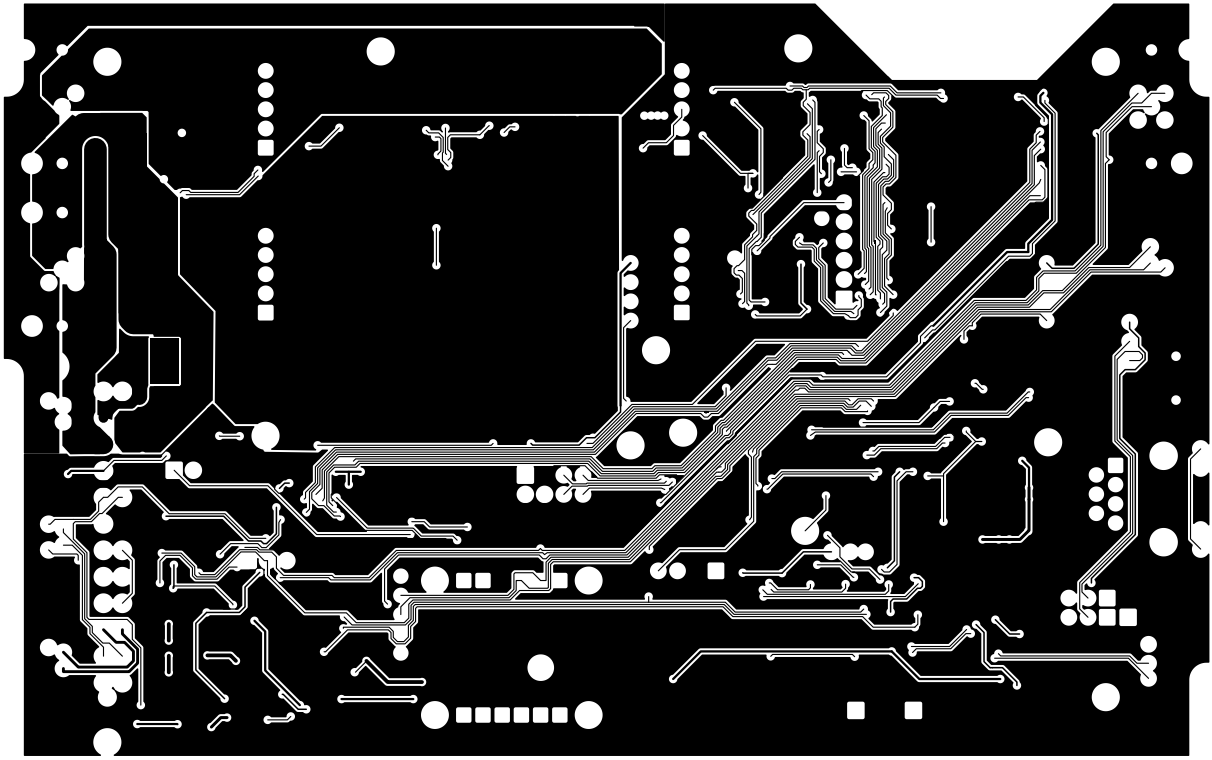
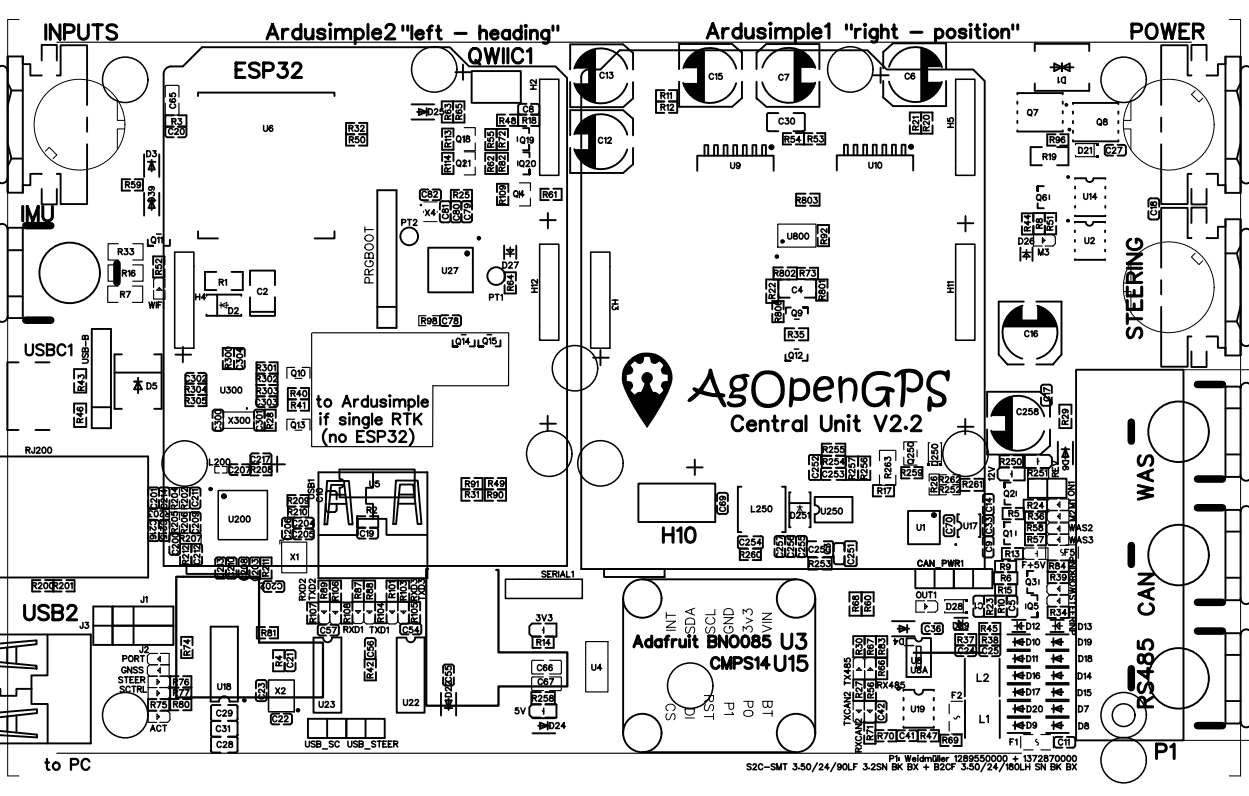
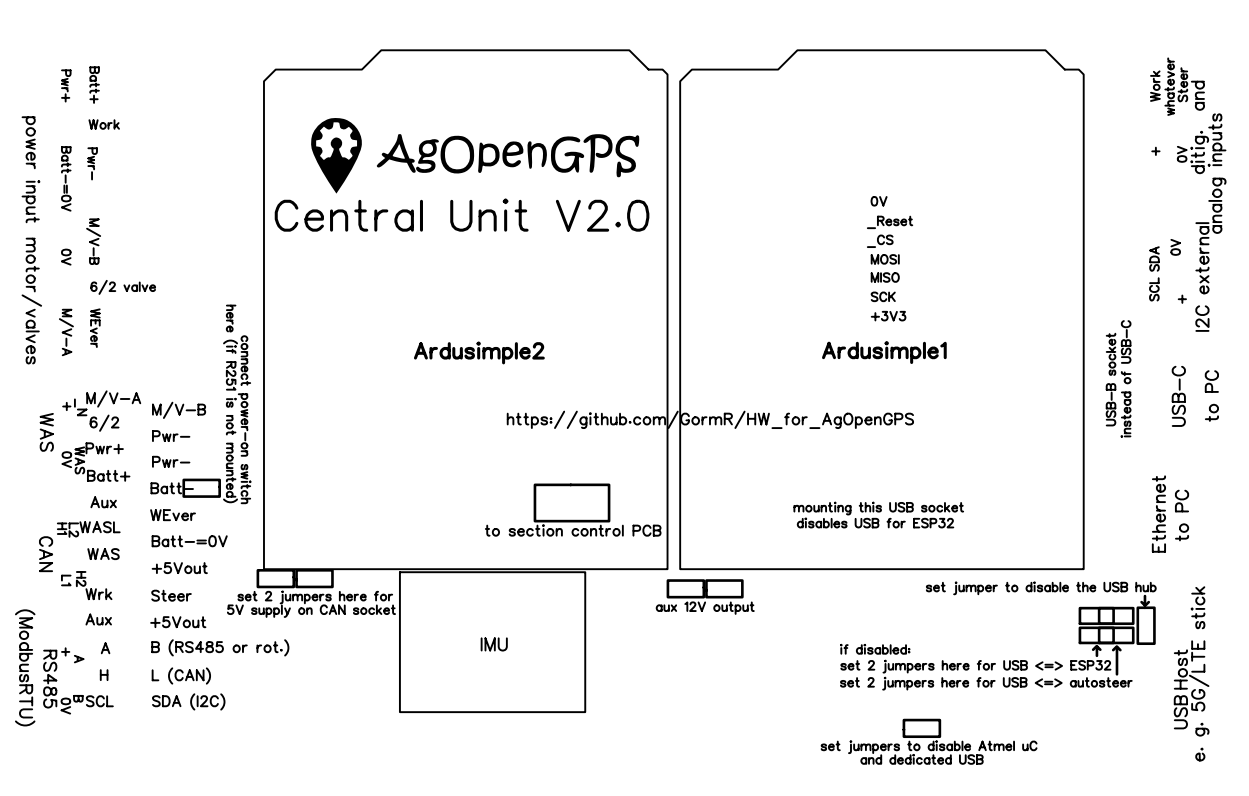
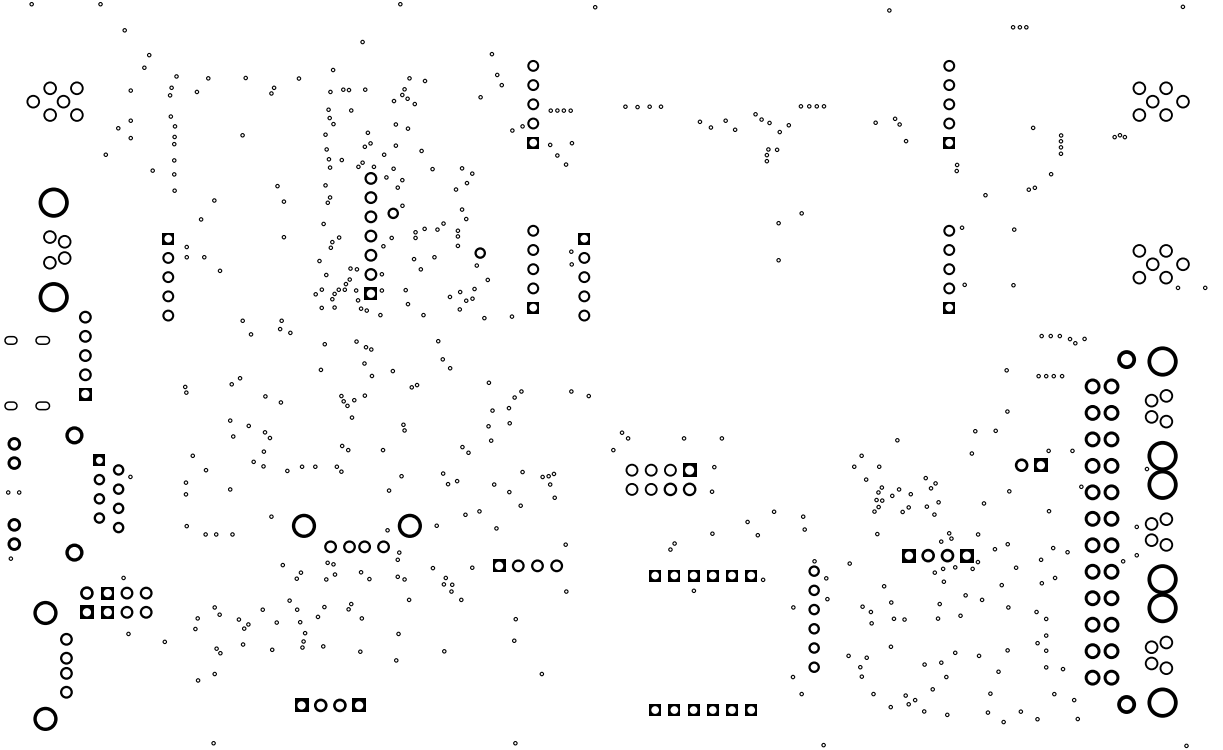





INPUTS
Ardusimple2 "left – heading"
Ardusimple1 "right – position"
POWER
ESP32
QWIIC1
IMU
USBC1
USB-B
RJ200
USB2
J1
J2
J3
PORT
GNSS
STEER
SCTRL
ACT
to PC
PRGBOOT
to Ardusimple
if single RTK
(no ESP32)
AgOpenGPS
Central Unit V2.2
H10
SERIAL1
Adafruit BNO085 U3
CMPS14 U15
INT
SDA
SCL
GND
3v3
VIN
CS
ID
RST
P1
P0
BT
USB_SC
USB_STEER
CAN_PWR1
STEERING
WAS
CAN
RS485
P1
Pk Weidmüller 1289550000 + 1372870000
S2C-SMT 3.50/24/90LF 3.2SN BK BX + B2CF 3.50/24/180LH SN BK BX


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