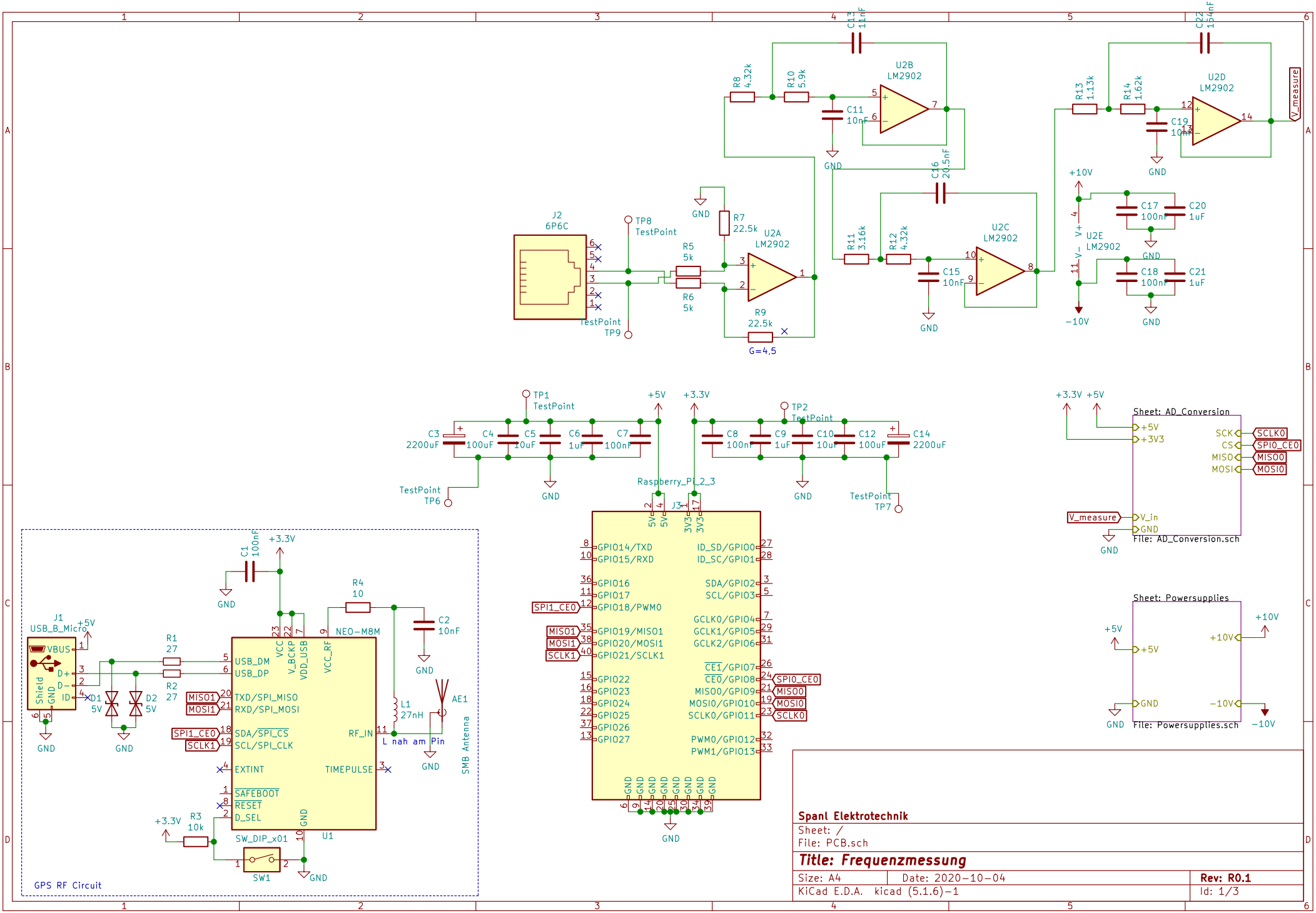
C13 11nF
C22 154nF
R8 4.32k
R10 5.9k
U2B LM2902
C11 10nF
GND
C16 20.5nF
R13 1.13k
R14 1.62k
U2D LM2902
C19 10nF
V_measure
+10V
C17 100nF
C20 1uF
U2E LM2902
C18 100nF
C21 1uF
−10V
J2 6P6C
TP8 TestPoint
R7 22.5k
U2A LM2902
R5 5k
R6 5k
R9 22.5k
G=4,5
TestPoint TP9
R11 3.16k
R12 4.32k
U2C LM2902
C15 10nF
TP1 TestPoint
TP2 TestPoint
+5V
+3.3V
C3 2200uF
C4 100uF
C5 10uF
C6 1uF
C7 100nF
C8 100nF
C9 1uF
C10 10uF
C12 100uF
C14 2200uF
TestPoint TP6
TestPoint TP7
Raspberry_Pi_2_3
J3
5V
3V3
GPIO14/TXD
GPIO15/RXD
GPIO16
GPIO17
GPIO18/PWM0
GPIO19/MISO1
GPIO20/MOSI1
GPIO21/SCLK1
GPIO22
GPIO23
GPIO24
GPIO25
GPIO26
GPIO27
ID_SD/GPIO0
ID_SC/GPIO1
SDA/GPIO2
SCL/GPIO3
GCLK0/GPIO4
GCLK1/GPIO5
GCLK2/GPIO6
CE1/GPIO7
CE0/GPIO8
MISO0/GPIO9
MOSI0/GPIO10
SCLK0/GPIO11
PWM0/GPIO12
PWM1/GPIO13
SPI1_CE0
MISO1
MOSI1
SCLK1
SPI0_CE0
MISO0
MOSI0
SCLK0
Sheet: AD_Conversion
+5V
+3V3
SCK
CS
MISO
MOSI
V_in
File: AD_Conversion.sch
Sheet: Powersupplies
File: Powersupplies.sch
J1 USB_B_Micro
VBUS
D+
D−
ID
Shield
GND
D1 5V
D2 5V
R1 27
R2 27
C1 100nF
R4 10
C2 10nF
NEO−M8M
USB_DM
USB_DP
TXD/SPI_MISO
RXD/SPI_MOSI
SDA/SPI_CS
SCL/SPI_CLK
EXTINT
TIMEPULSE
RF_IN
SAFEBOOT
RESET
D_SEL
VCC
V_BCKP
VDD_USB
VCC_RF
L1 27nH
L nah am Pin
AE1
SMB Antenna
R3 10k
SW_DIP_x01
SW1
U1
GPS RF Circuit
Spanl Elektrotechnik
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Size: A4
Date: 2020−10−04
Rev: R0.1
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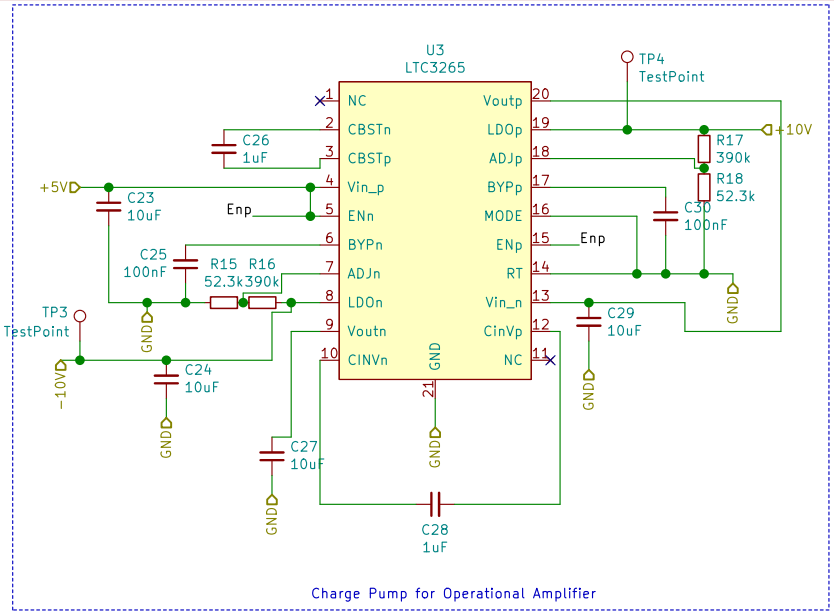

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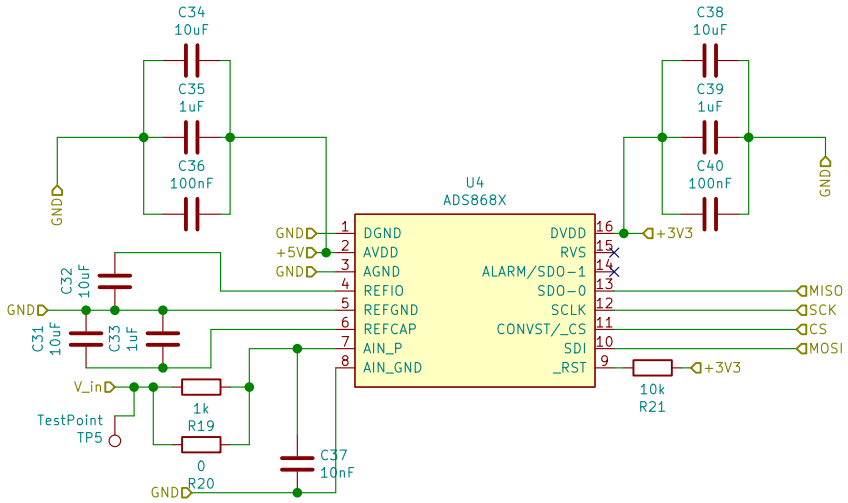

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