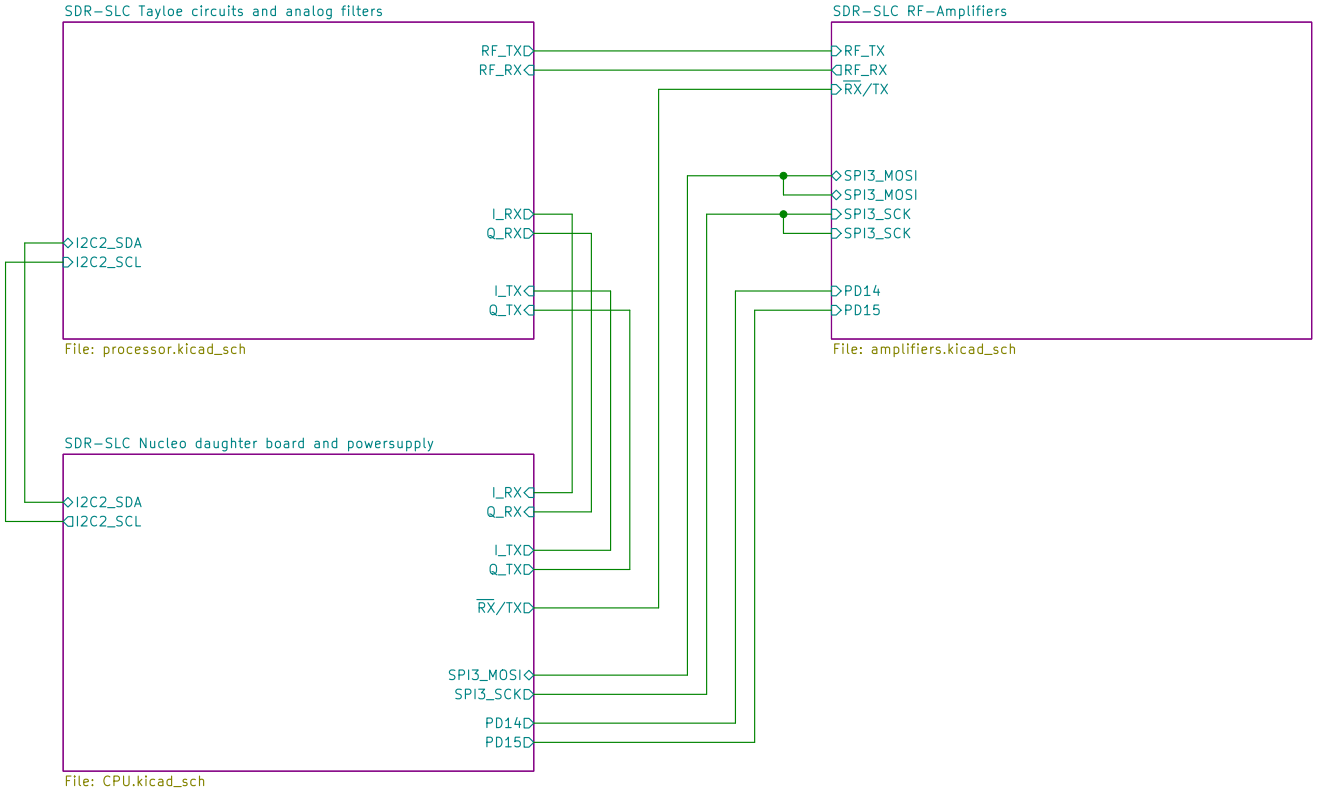
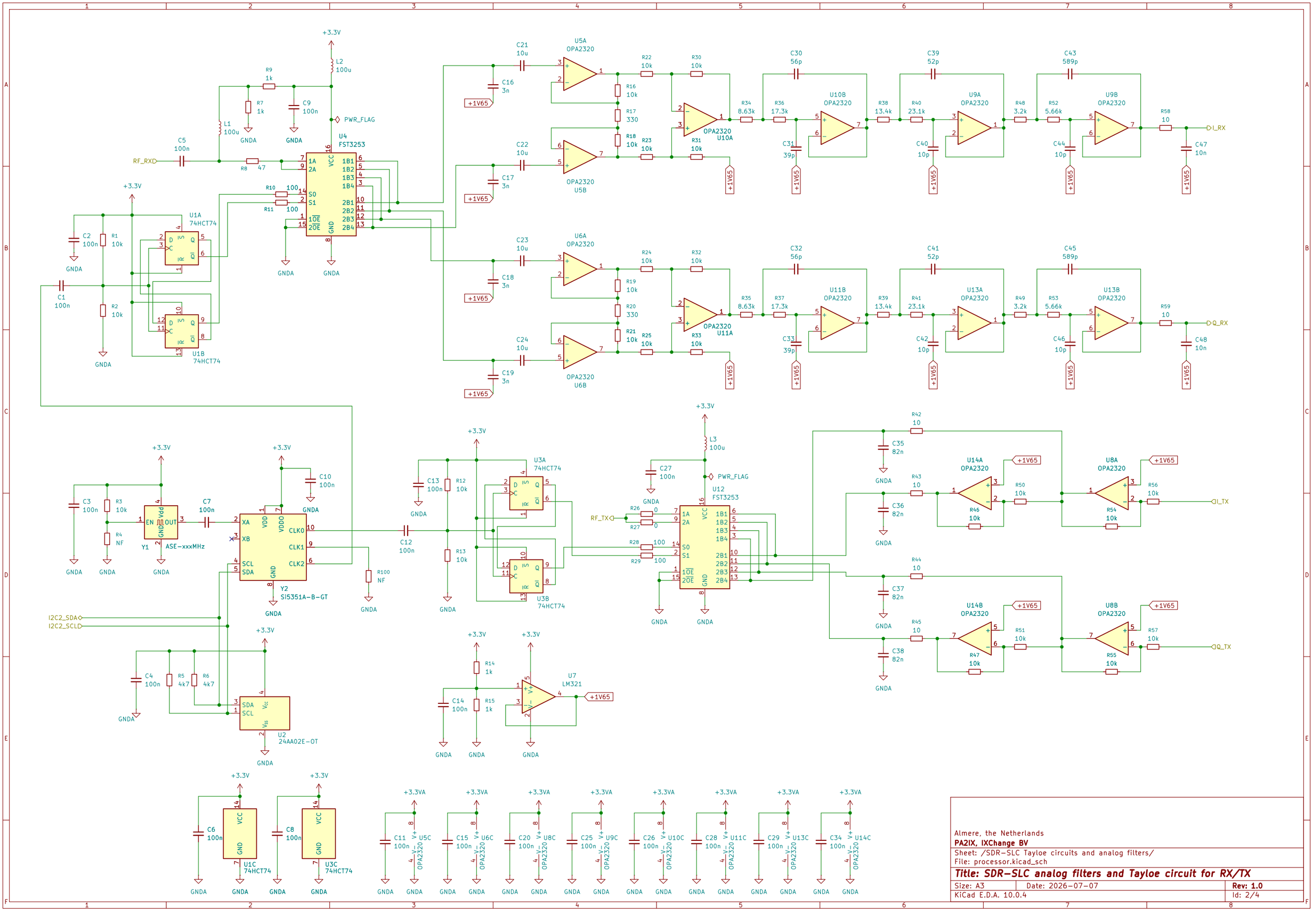


Almere, the Netherlands
PA2IX, IXChange BV

Sheet: /
File: SDR-SLC-HFtransceiver.kicad_sch

Title: SDR-SLC HF transceiver

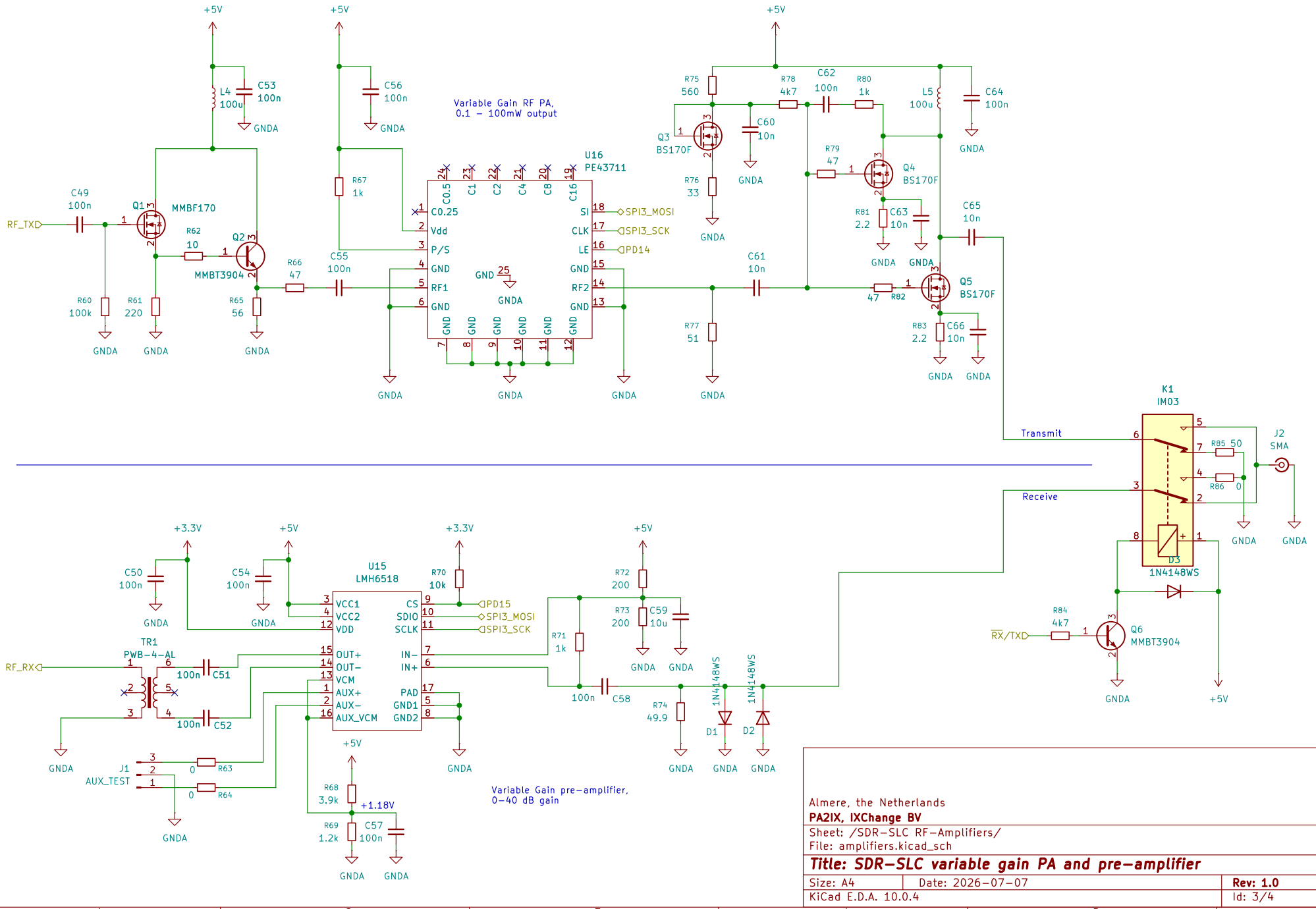
Size: A4	Date: 2026-07-07	**Rev: 1.0**
KiCad E.D.A. 10.0.4		Id: 1/4

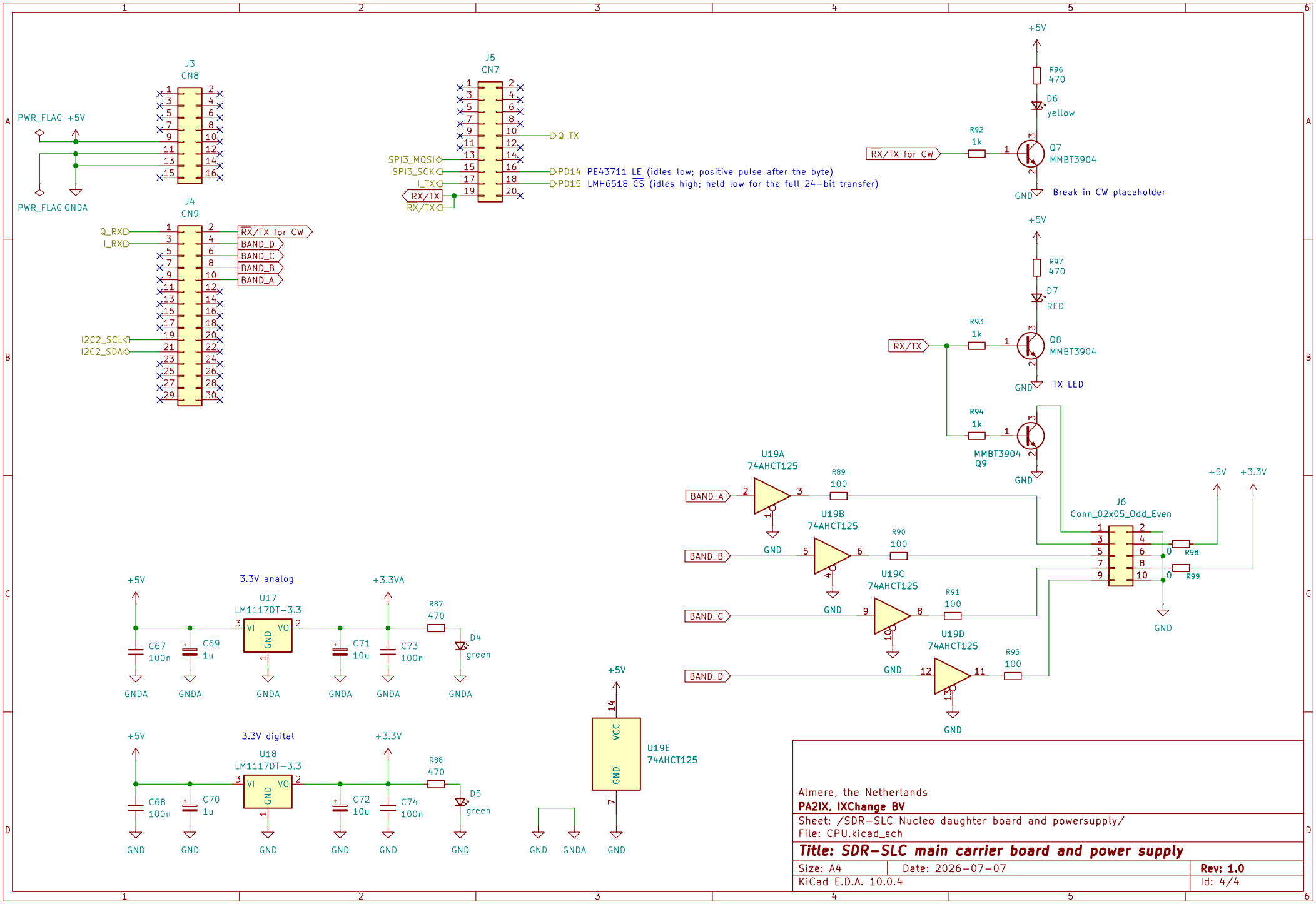


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PA2IX, IXChange BV
Sheet: /SDR-SLC Tayloe circuits and analog filters/
File: processor.kicad_sch

Title: SDR-SLC analog filters and Tayloe circuit for RX/TX

Size: A3	Date: 2026-07-07	**Rev: 1.0**
KiCad E.D.A. 10.0.4		Id: 2/4


Variable Gain RF PA,
0.1 – 100mW output
U16
PE43711
U15
LMH6518
K1
IM03
Transmit
Receive
J2
SMA
TR1
PWB-4-AL
MMBF170
MMBT3904
BS170F
1N4148WS
AUX_TEST
RF_TXD
RF_RXD
RX/TXD
SPI3_MOSI
SPI3_SCK
PD14
PD15
+5V
+3.3V
+1.18V
GNDA
Variable Gain pre-amplifier,
0–40 dB gain
Almere, the Netherlands
PA2IX, IXChange BV
Sheet: /SDR-SLC RF-Amplifiers/
File: amplifiers.kicad_sch
Title: SDR-SLC variable gain PA and pre-amplifier
Size: A4
Date: 2026-07-07
Rev: 1.0
KiCad E.D.A. 10.0.4
Id: 3/4


J3
CN8
PWR_FLAG +5V
PWR_FLAG GNDA
J4
CN9
Q_RX
I_RX
I2C2_SCL
I2C2_SDA
RX/TX for CW
BAND_D
BAND_C
BAND_B
BAND_A
J5
CN7
Q_TX
SPI3_MOSI
SPI3_SCK
I_TX
RX/TX
RX/TX
PD14 PE43711 LE (idles low; positive pulse after the byte)
PD15 LMH6518 CS (idles high; held low for the full 24-bit transfer)
+5V
R96
470
D6
yellow
R92
1k
Q7
MMBT3904
RX/TX for CW
GND
Break in CW placeholder
R97
470
D7
RED
R93
1k
Q8
MMBT3904
RX/TX
GND
TX LED
R94
1k
MMBT3904
Q9
GND
U19A
74AHCT125
U19B
74AHCT125
U19C
74AHCT125
U19D
74AHCT125
U19E
74AHCT125
BAND_A
BAND_B
BAND_C
BAND_D
R89
100
R90
100
R91
100
R95
100
J6
Conn_02x05_Odd_Even
R98
R99
+3.3V
3.3V analog
U17
LM1117DT-3.3
+3.3VA
R87
470
D4
green
C67
100n
C69
1u
C71
10u
C73
100n
GNDA
3.3V digital
U18
LM1117DT-3.3
+3.3V
R88
470
D5
green
C68
100n
C70
1u
C72
10u
C74
100n
GND
Almere, the Netherlands
PA2IX, IXChange BV
Sheet: /SDR-SLC Nucleo daughter board and powersupply/
File: CPU.kicad_sch
Title: SDR-SLC main carrier board and power supply
Size: A4
Date: 2026-07-07
Rev: 1.0
KiCad E.D.A. 10.0.4
Id: 4/4