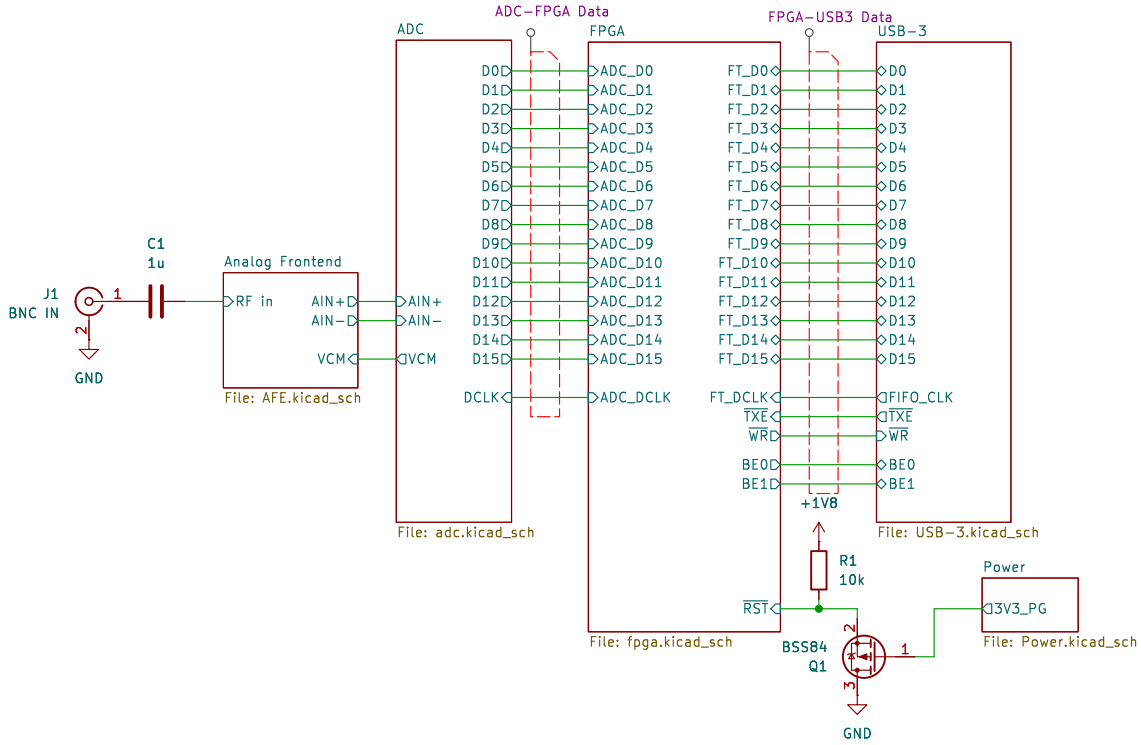

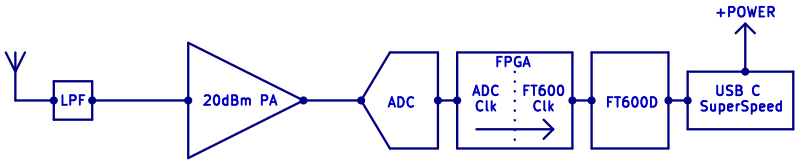

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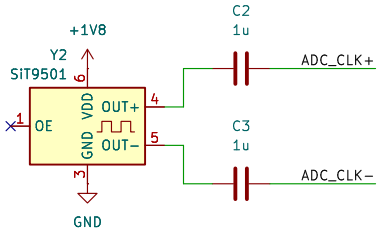
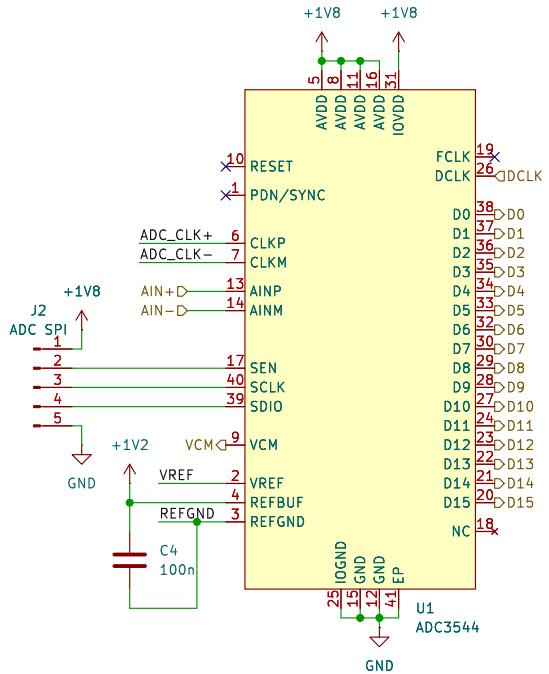
Sheet: /
File: usb3–sdr.kicad_sch

Title: USB 3.0 1–60MHz DC SDR

Size: A4	Date: 2026–02–19	**Rev: 1**
KiCad E.D.A. 9.0.6		Id: 1/6





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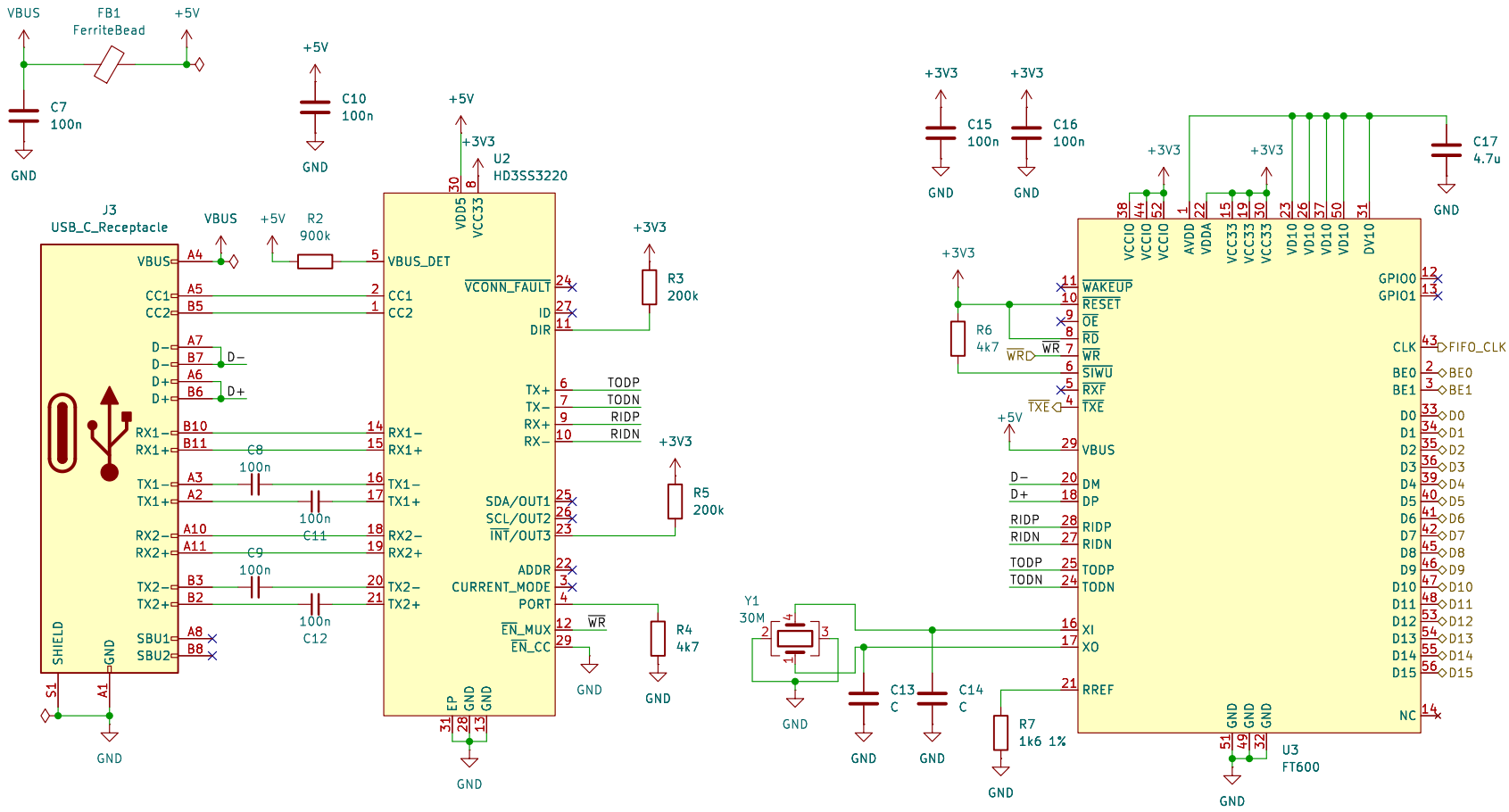
Sheet: /ADC/
File: adc.kicad_sch

Title: ADC

Size: A4	Date: 2026-02-19	**Rev: 1**
KiCad E.D.A. 9.0.6		Id: 2/6



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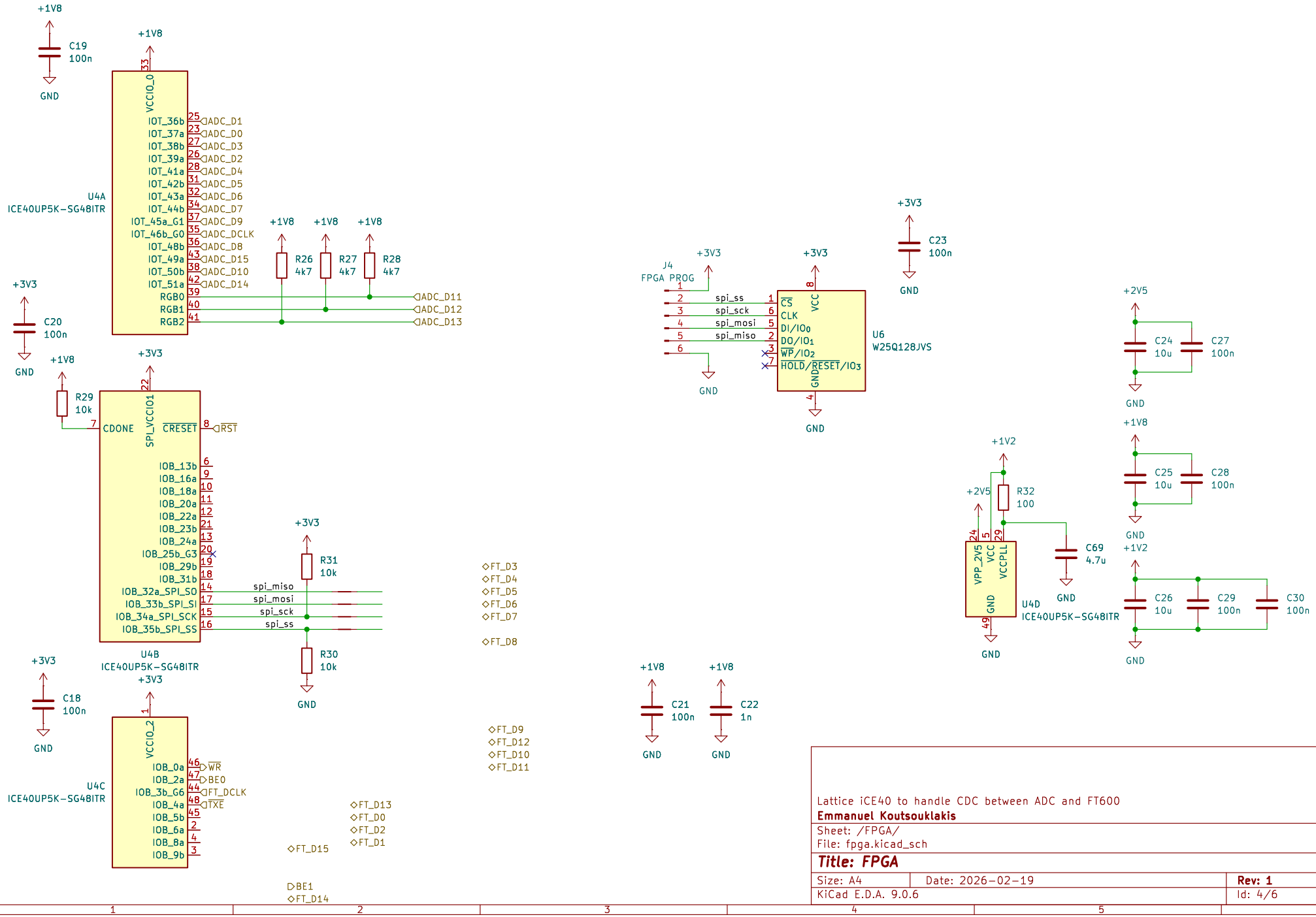
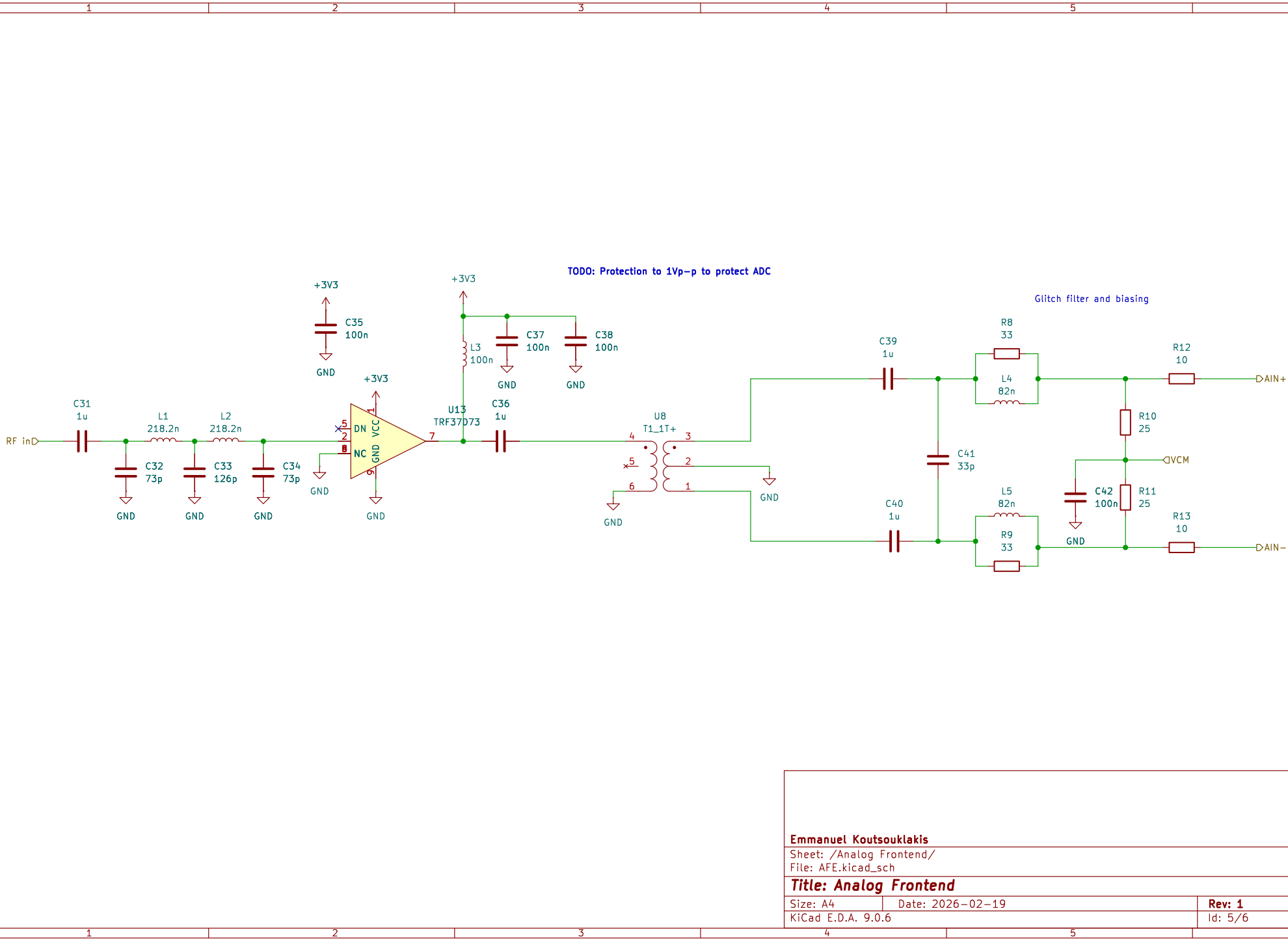
Sheet: /USB−3/		
File: USB−3.kicad_sch		
Title: CMOS FIFO to USB 3.0 SS		
Size: A4	Date: 2026−02−19	**Rev: 1**
KiCad E.D.A. 9.0.6		Id: 3/6


+1V8
C19
100n
GND
U4A
ICE40UP5K-SG48ITR
VCCIO_0
IOT_36b
IOT_37a
IOT_38b
IOT_39a
IOT_41a
IOT_42b
IOT_43a
IOT_44b
IOT_45a_G1
IOT_46b_G0
IOT_48b
IOT_49a
IOT_50b
IOT_51a
RGB0
RGB1
RGB2
ADC_D1
ADC_D0
ADC_D3
ADC_D2
ADC_D4
ADC_D5
ADC_D6
ADC_D7
ADC_D9
ADC_DCLK
ADC_D8
ADC_D15
ADC_D10
ADC_D14
ADC_D11
ADC_D12
ADC_D13
R26
4k7
R27
4k7
R28
4k7
+3V3
C20
100n
GND
R29
10k
U4B
ICE40UP5K-SG48ITR
SPI_VCCIO1
CDONE
CRESET
RST
IOB_13b
IOB_16a
IOB_18a
IOB_20a
IOB_22a
IOB_23b
IOB_24a
IOB_25b_G3
IOB_29b
IOB_31b
IOB_32a_SPI_SO
IOB_33b_SPI_SI
IOB_34a_SPI_SCK
IOB_35b_SPI_SS
spi_miso
spi_mosi
spi_sck
spi_ss
R31
10k
R30
10k
C18
100n
U4C
ICE40UP5K-SG48ITR
VCCIO_2
IOB_0a
IOB_2a
IOB_3b_G6
IOB_4a
IOB_5b
IOB_6a
IOB_8a
IOB_9b
WR
BE0
FT_DCLK
TXE
BE1
FT_D14
FT_D15
FT_D13
FT_D0
FT_D2
FT_D1
FT_D3
FT_D4
FT_D5
FT_D6
FT_D7
FT_D8
FT_D9
FT_D12
FT_D10
FT_D11
J4
FPGA PROG
spi_ss
spi_sck
spi_mosi
spi_miso
U6
W25Q128JVS
C23
100n
C21
100n
C22
1n
R32
100
C69
4.7u
U4D
ICE40UP5K-SG48ITR
VPP_2V5
VCC
VCCPLL
C24
10u
C27
100n
C25
10u
C28
100n
C26
10u
C29
100n
C30
100n
+2V5
+1V2
Lattice iCE40 to handle CDC between ADC and FT600
Emmanuel Koutsouklakis
Sheet: /FPGA/
File: fpga.kicad_sch
Title: FPGA
Size: A4
Date: 2026-02-19
Rev: 1
KiCad E.D.A. 9.0.6
Id: 4/6



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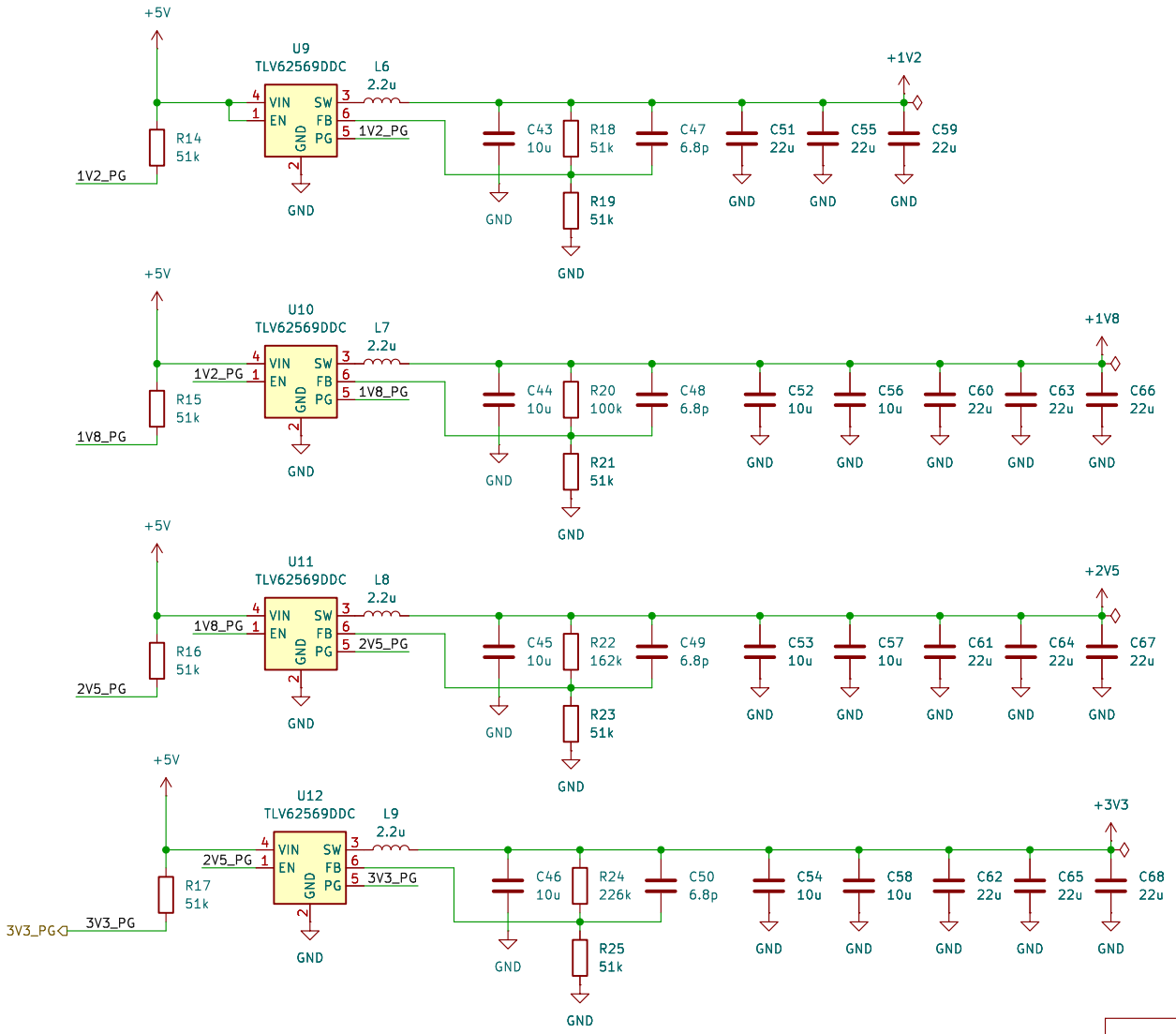
Sheet: /Analog Frontend/		
File: AFE.kicad_sch		
Title: Analog Frontend		
Size: A4	Date: 2026-02-19	**Rev: 1**
KiCad E.D.A. 9.0.6		Id: 5/6



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Sheet: /Power/
File: Power.kicad_sch

Title: Power

Size: A4	Date: 2026-02-19	**Rev: 1**
KiCad E.D.A. 9.0.6		Id: 6/6