AFE – Analog sync mux

File: afe_syncmux.kicad_sch

AFE – Audio

File: afe_audio.kicad_sch

AFE – RGB

File: afe_rgb.kicad_sch

Clock

File: clock.kicad_sch

FPGA – Banks 2–3

File: fpga1.kicad_sch

FPGA – Banks 4–5

File: fpga2.kicad_sch

FPGA – Banks 7–8

File: fpga3.kicad_sch

FPGA – Clock + config

File: fpga4.kicad_sch

FPGA – Power

File: fpga5.kicad_sch

FPGA – Power decoupling

File: fpga6.kicad_sch

HDMI

File: hdmi.kicad_sch

I/O – Analog AV

File: io_analog_av.kicad_sch

I/O – Digital AV

File: io_digital_av.kicad_sch

I/O – Expansion

File: io_expansion.kicad_sch

I/O – User

File: io_user.kicad_sch

Memory

File: memory.kicad_sch

Power

File: power.kicad_sch

MH1 MountingHole

MH2 MountingHole

MH3 MountingHole

MH4 MountingHole

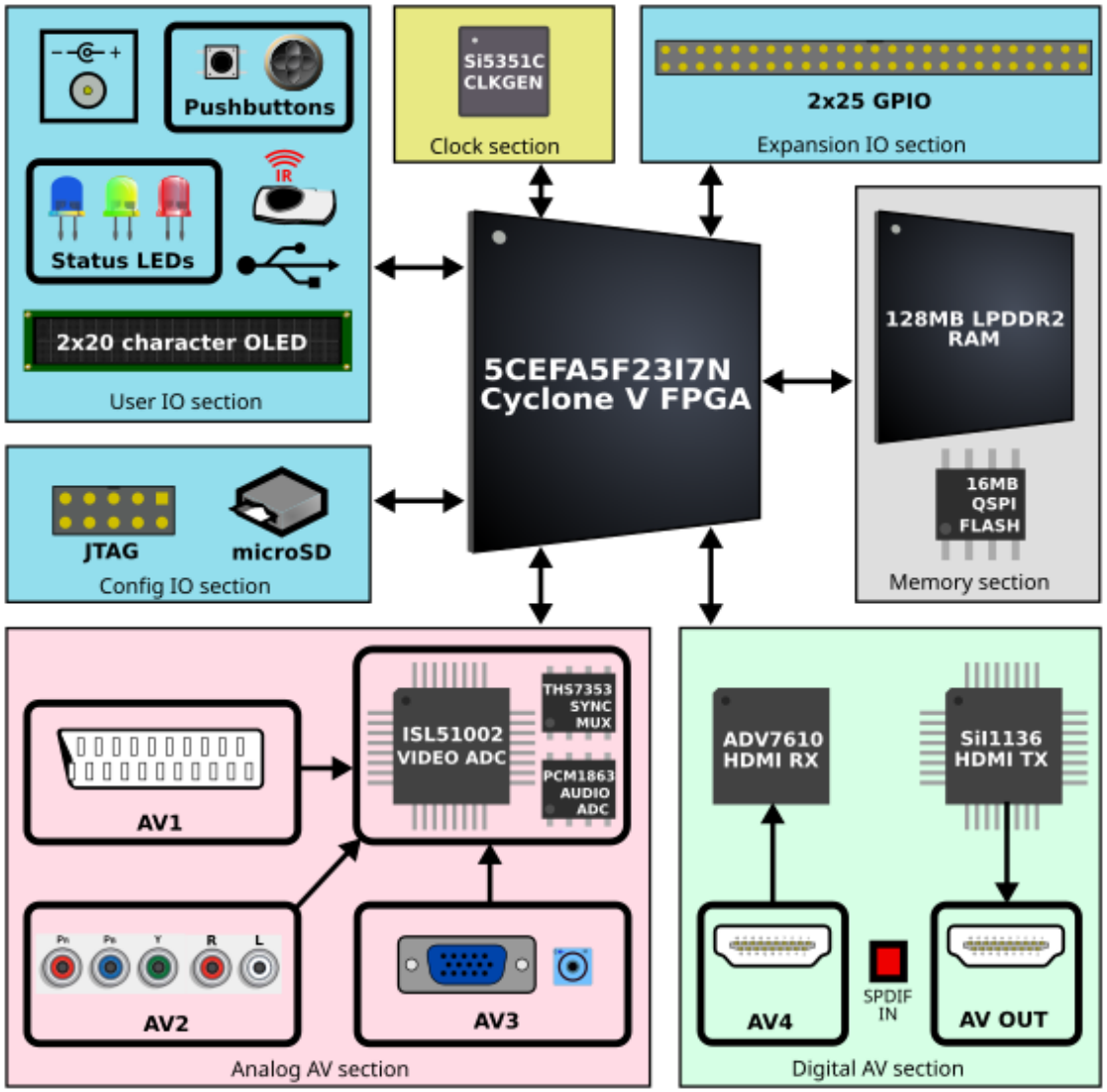
MH5 MountingHole

MH6 MountingHole

MH7 MountingHole

ST1 7773 GND

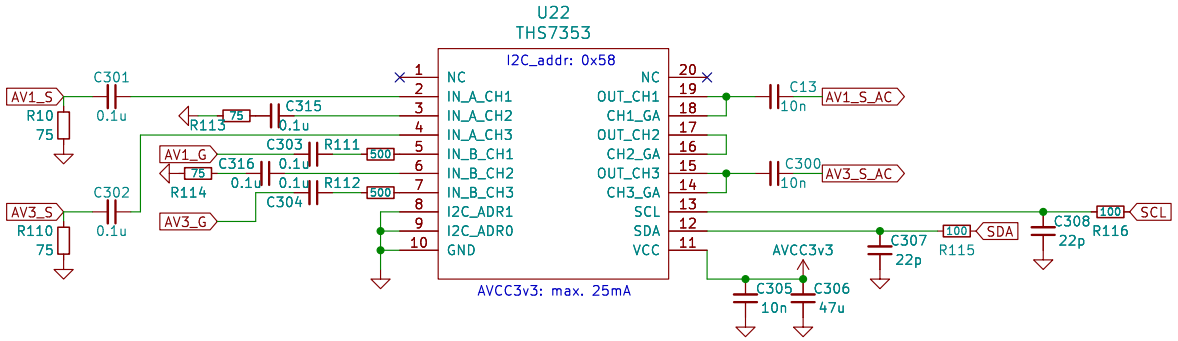
ST2 7773 GND



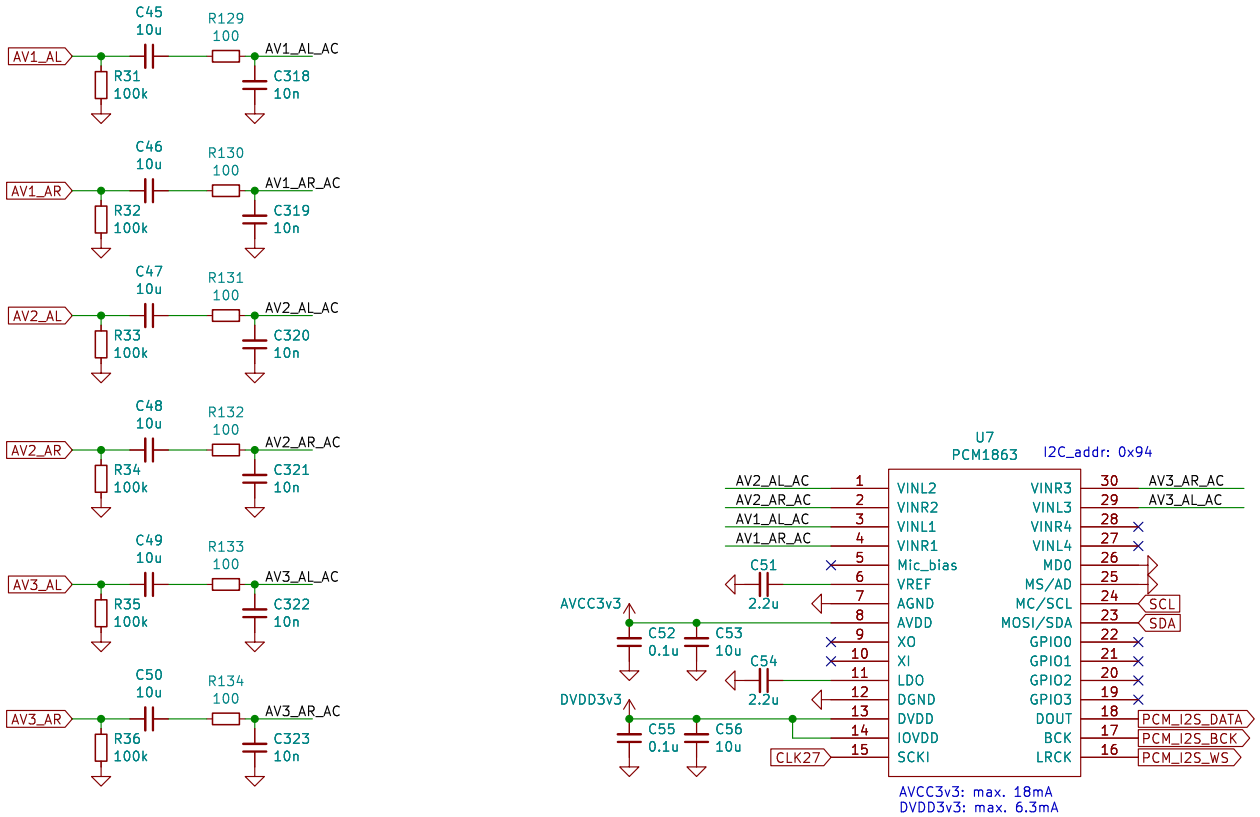
Sheet: /
File: ossc_pro.kicad_sch

Title: OSSC Pro

Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 1/18



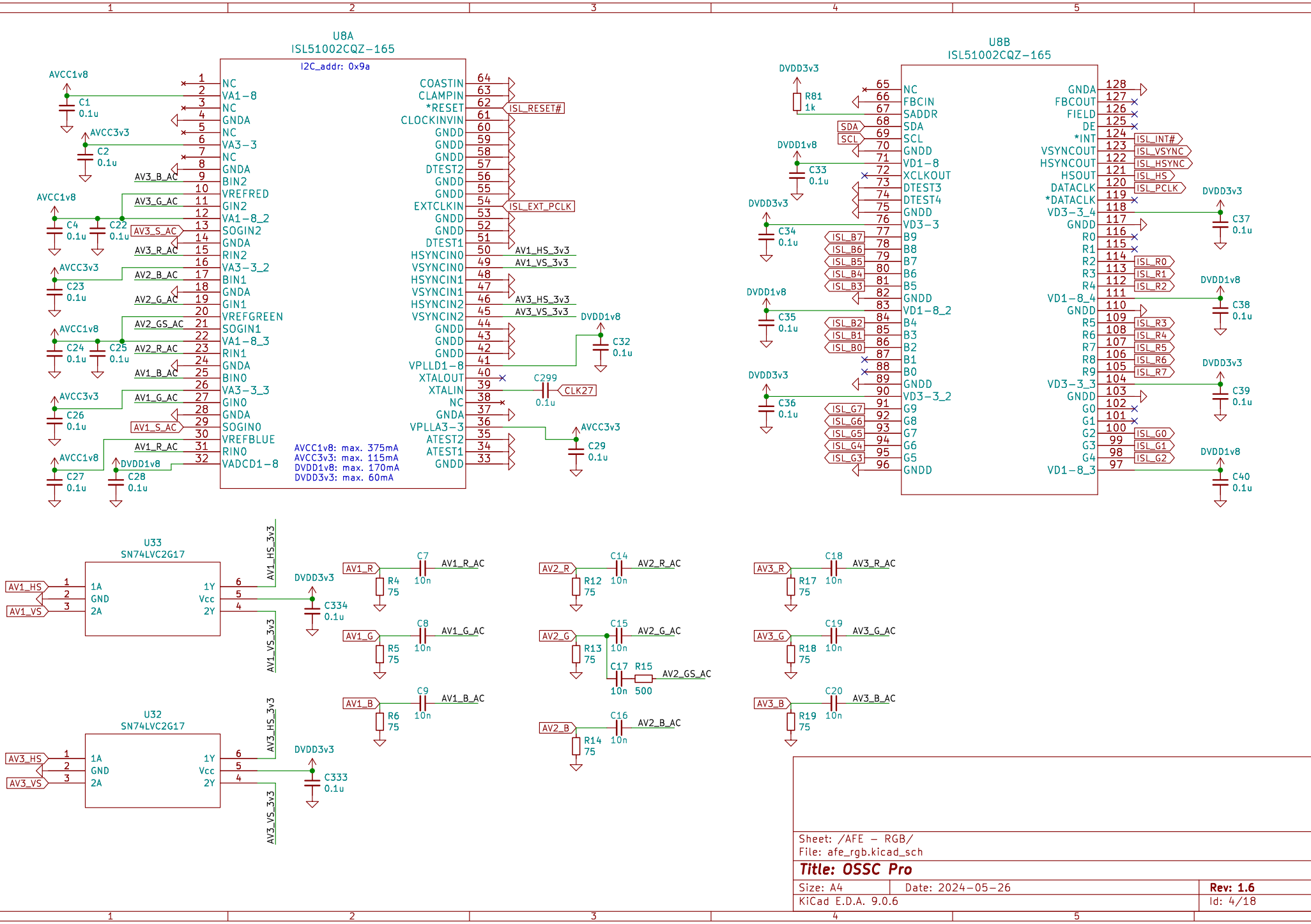
Sheet: /AFE – Analog sync mux/		
File: afe_syncmux.kicad_sch		
Title: OSSC Pro		
Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 2/18

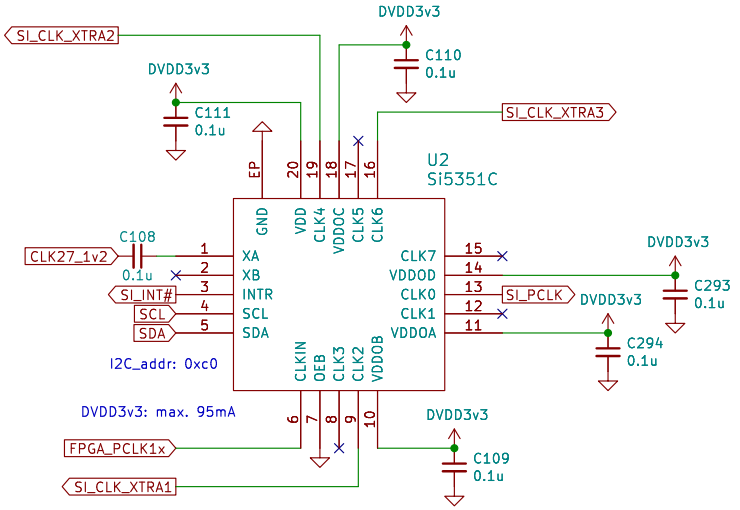


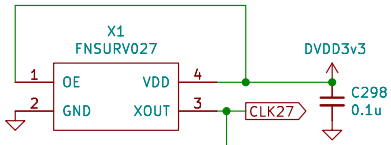
Sheet: /AFE – Audio/
File: afe_audio.kicad_sch

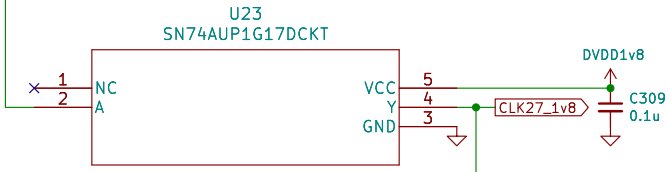
Title: OSSC Pro

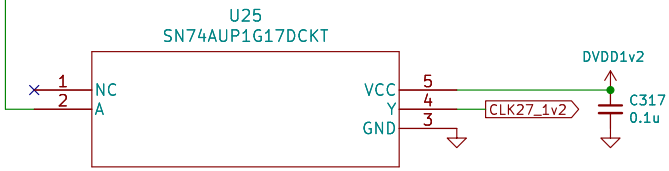
Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 3/18


U8A
ISL51002CQZ-165
I2C_addr: 0x9a
AVCC1v8: max. 375mA
AVCC3v3: max. 115mA
DVDD1v8: max. 170mA
DVDD3v3: max. 60mA
U8B
ISL51002CQZ-165
U33
SN74LVC2G17
U32
SN74LVC2G17
Sheet: /AFE - RGB/
File: afe_rgb.kicad_sch
Title: OSSC Pro
Size: A4
Date: 2024-05-26
Rev: 1.6
KiCad E.D.A. 9.0.6
Id: 4/18





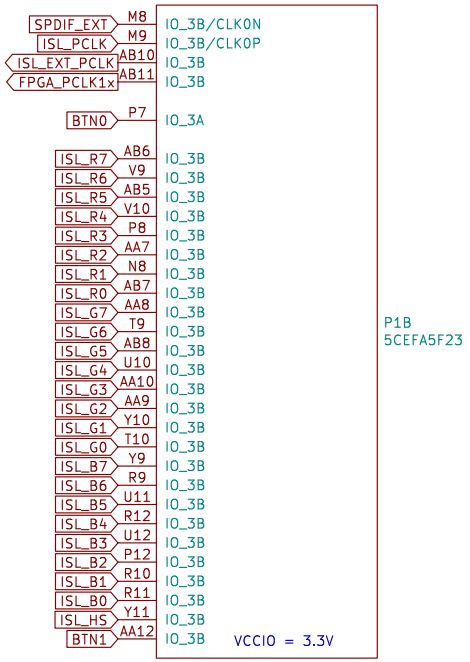




Sheet: /Clock/
File: clock.kicad_sch

Title: OSSC Pro

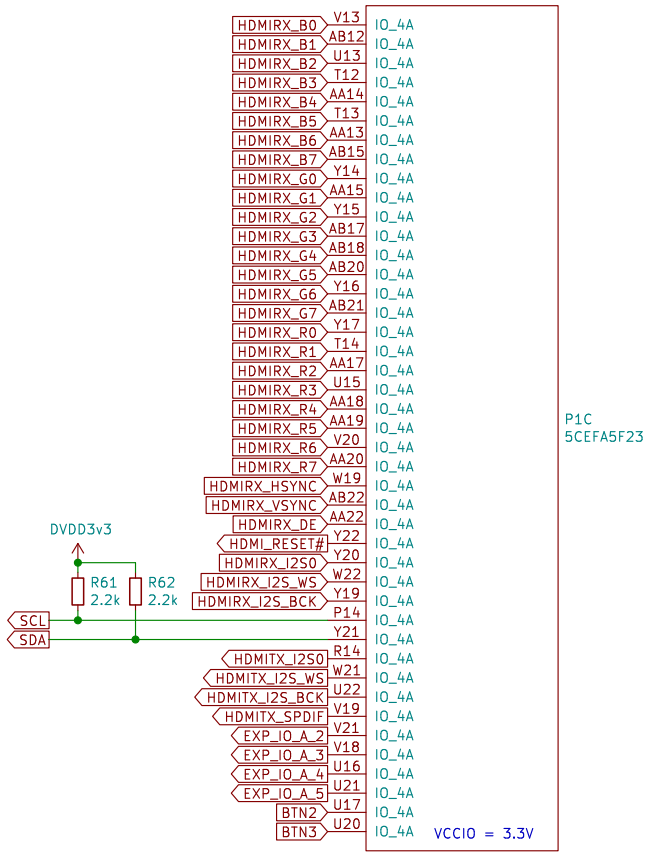
Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 5/18

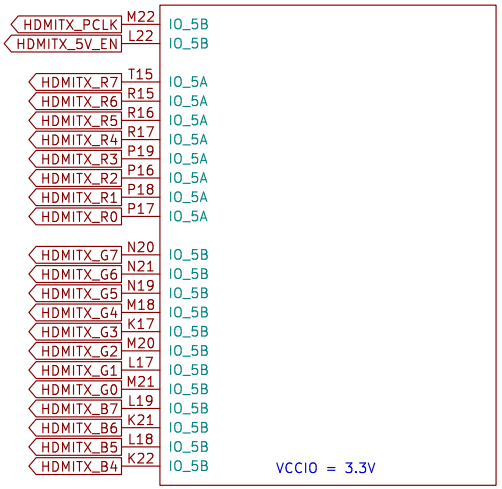


Sheet: /FPGA – Banks 2–3/
File: fpga1.kicad_sch

Title: OSSC Pro

Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 6/18

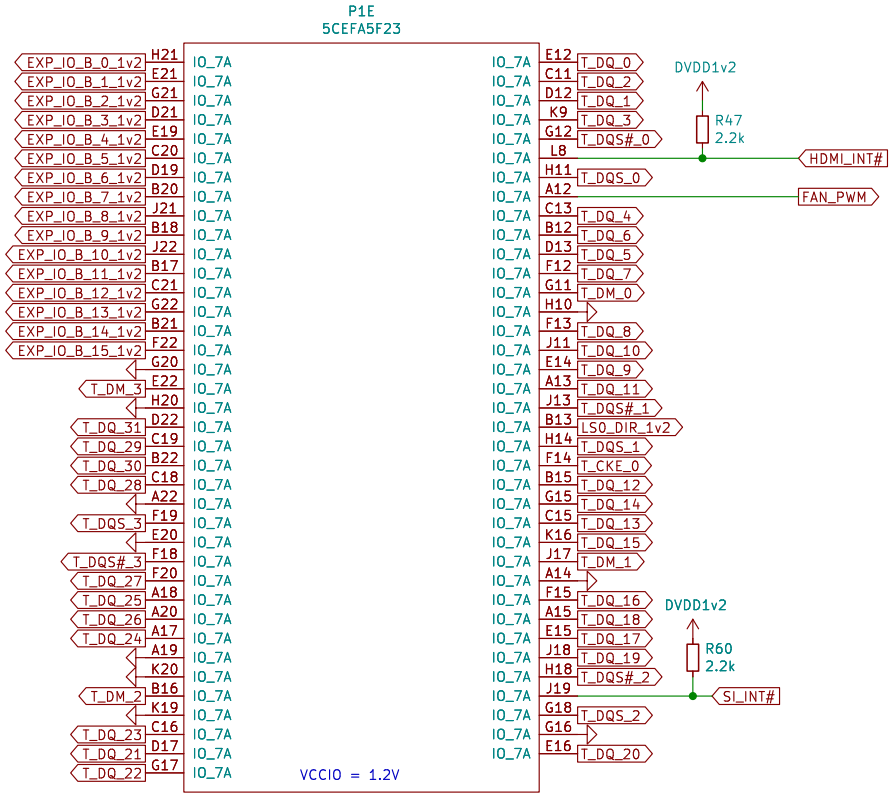


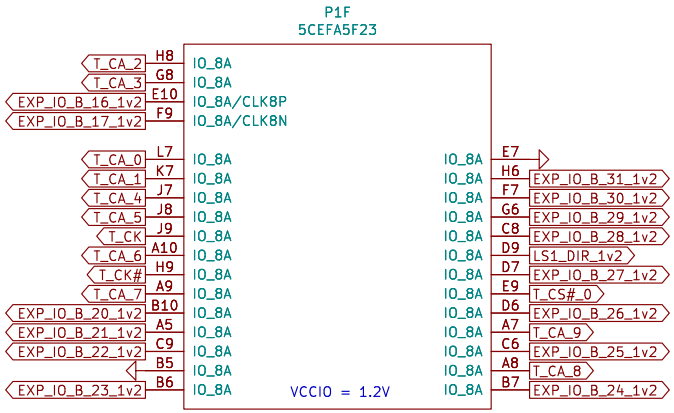


Sheet: /FPGA – Banks 4–5/
File: fpga2.kicad_sch

Title: OSSC Pro

Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 7/18

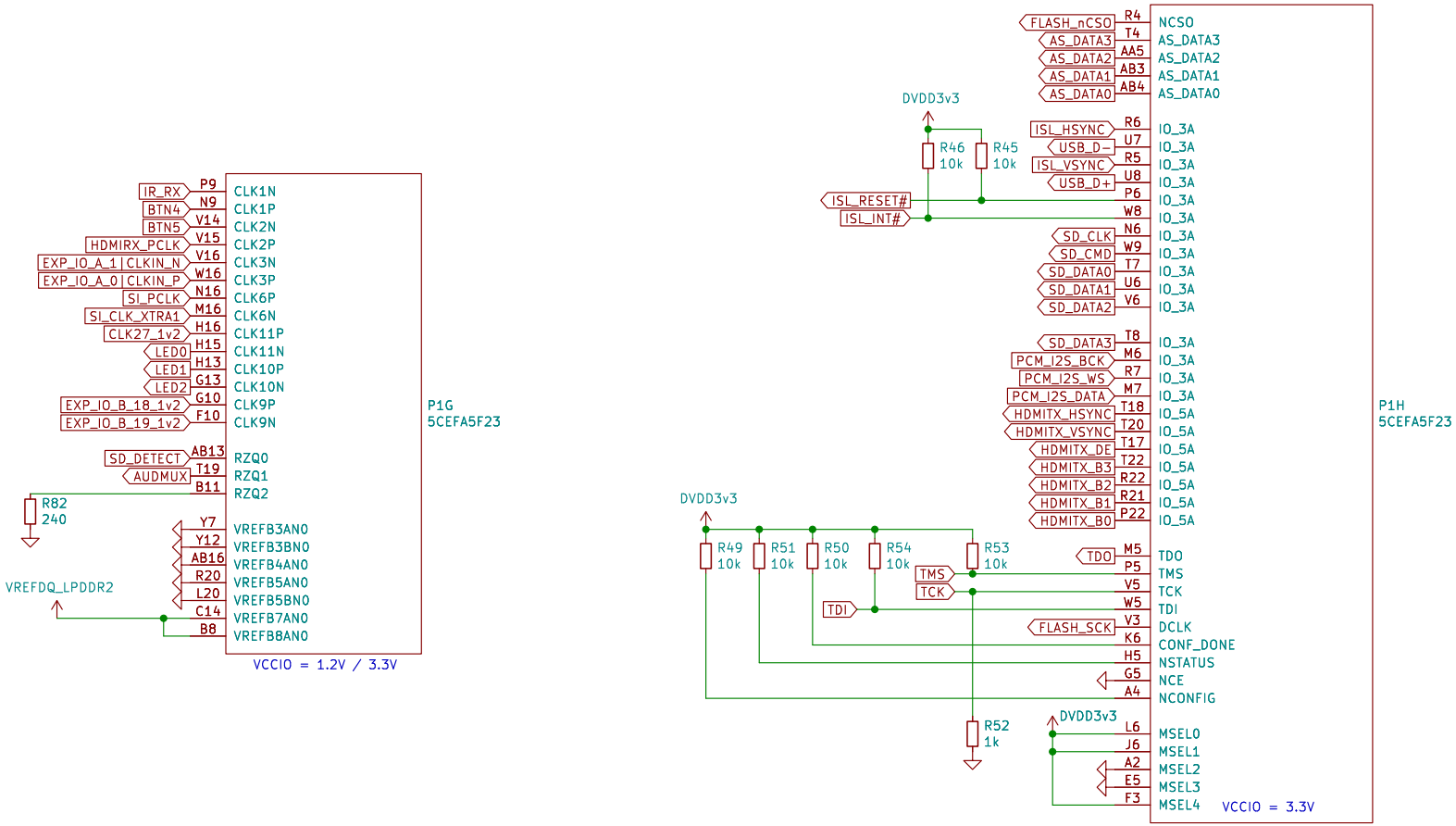




Sheet: /FPGA – Banks 7–8/
File: fpga3.kicad_sch

Title: OSSC Pro

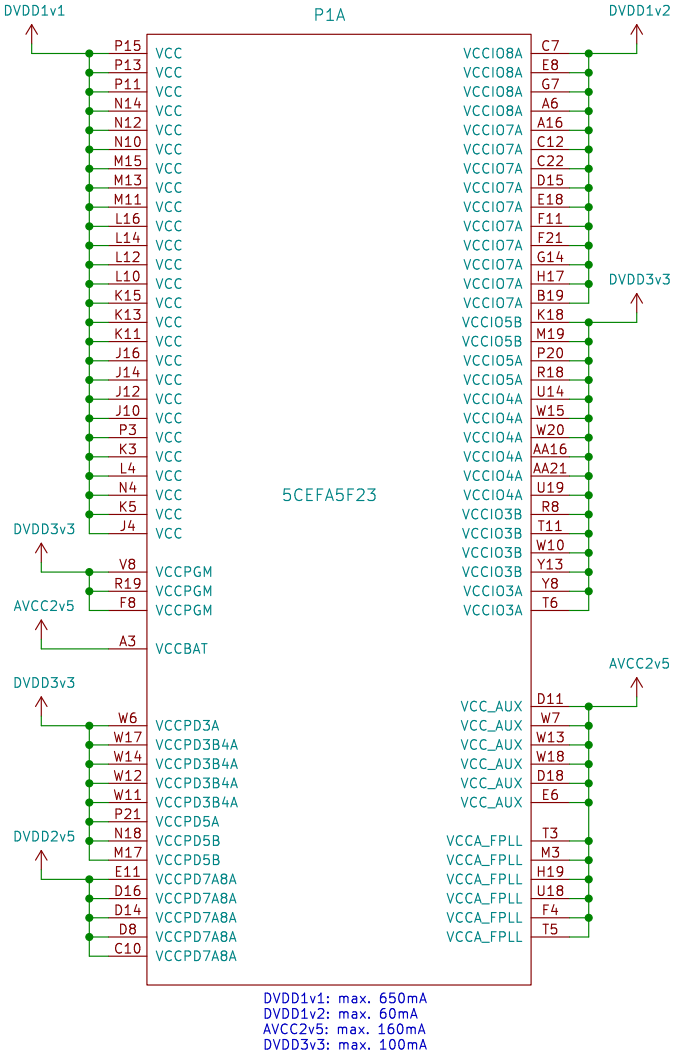
Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 8/18

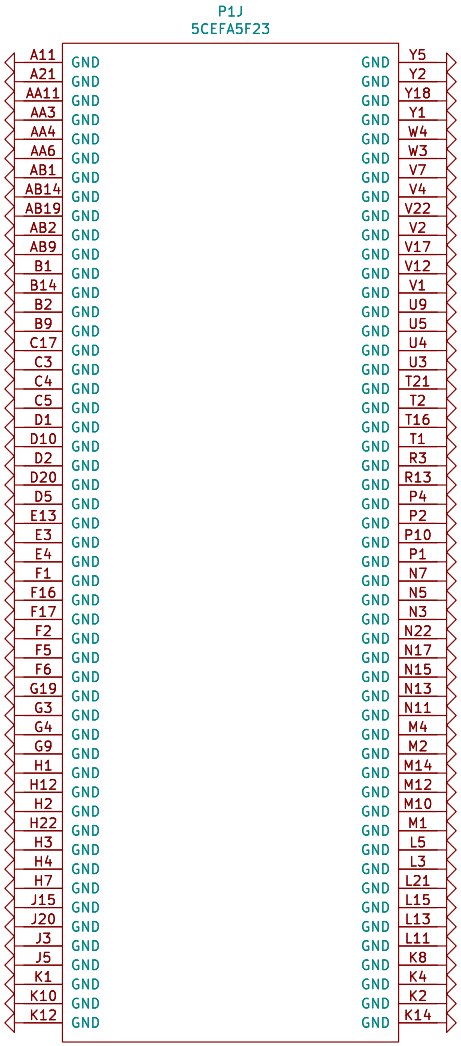


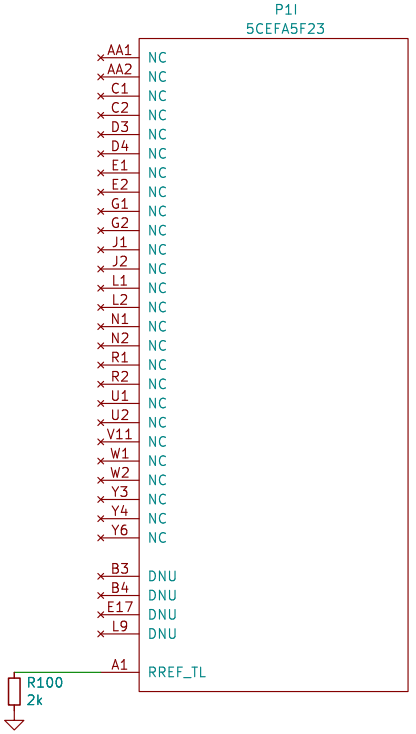
Sheet: /FPGA – Clock + config/
File: fpga4.kicad_sch

Title: OSSC Pro

Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 9/18



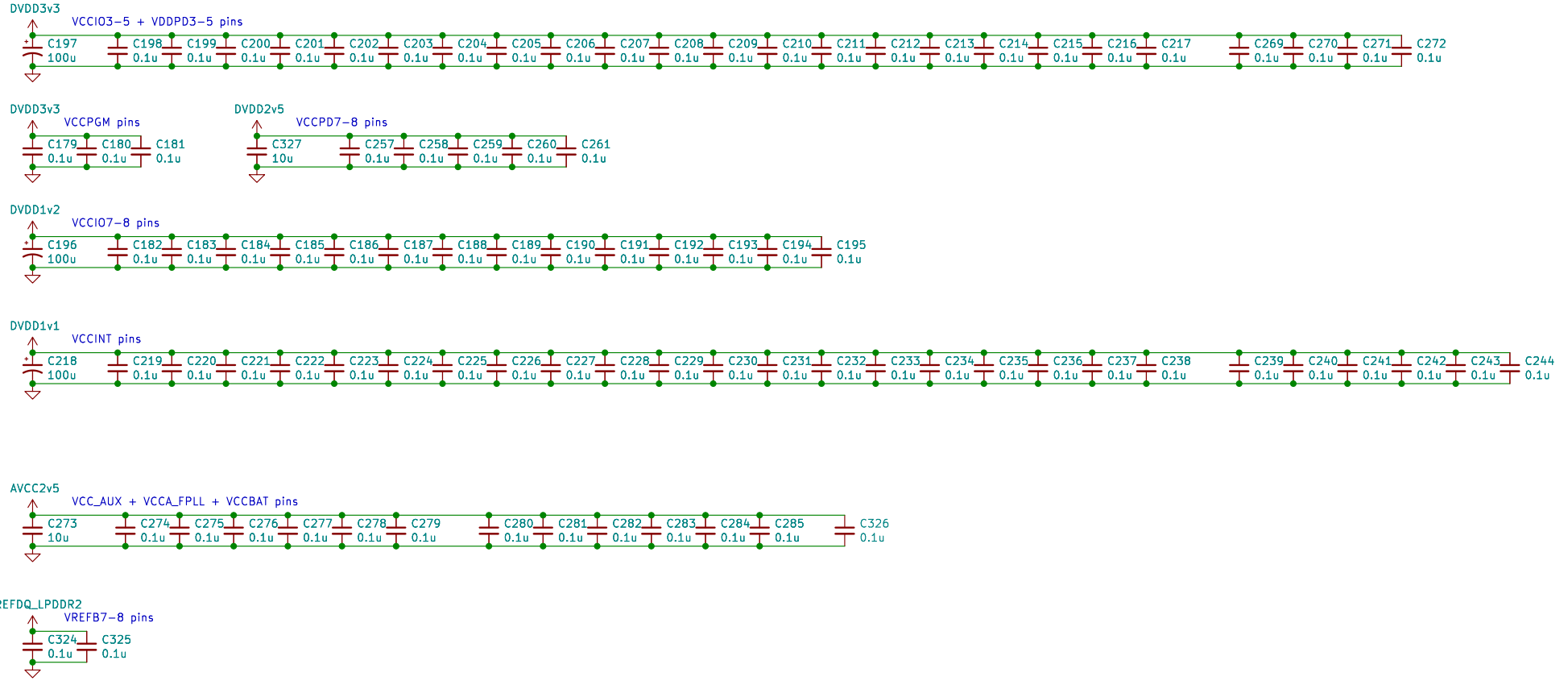




Sheet: /FPGA – Power/
File: fpga5.kicad_sch

Title: OSSC Pro

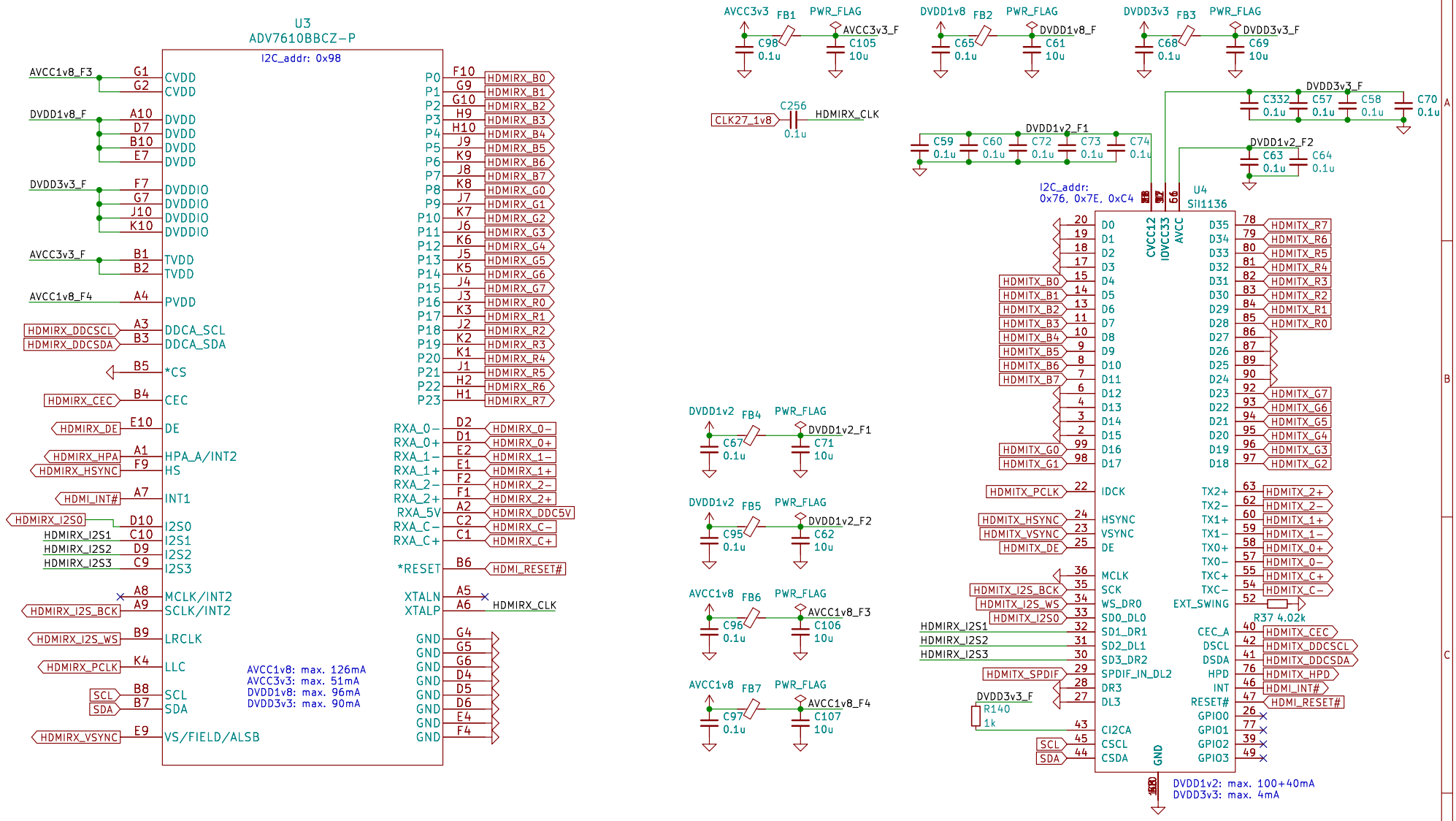
Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 10/18

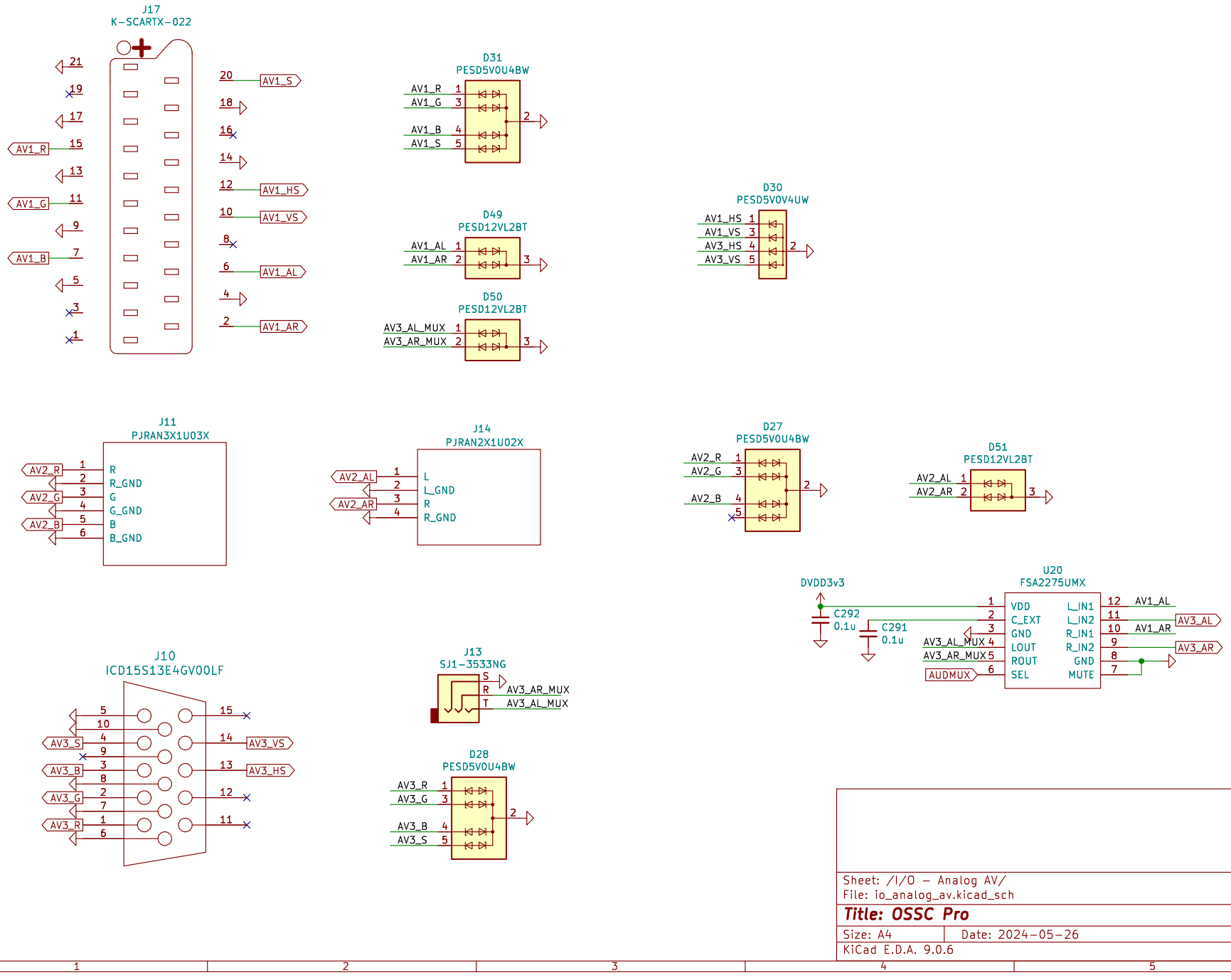


Sheet: /FPGA – Power decoupling/
File: fpga6.kicad_sch

Title: OSSC Pro

Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 11/18

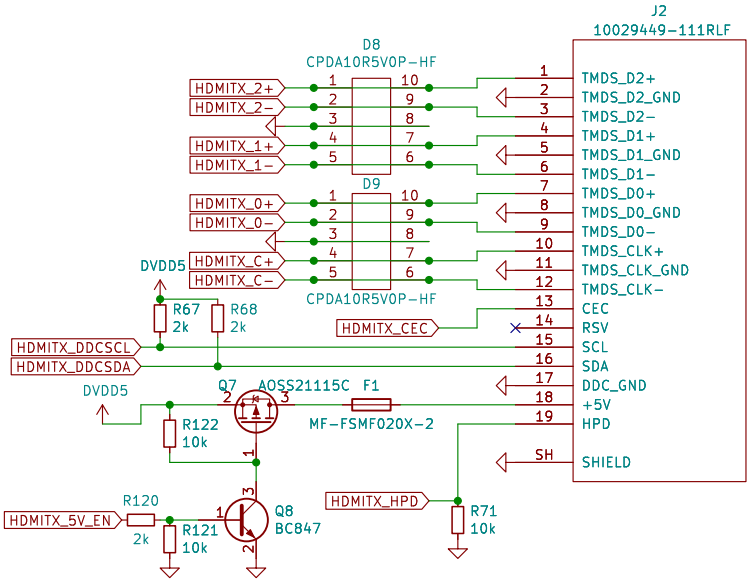

U3
ADV7610BBCZ-P
I2C_addr: 0x98
AVCC1v8: max. 126mA
AVCC3v3: max. 51mA
DVDD1v8: max. 96mA
DVDD3v3: max. 90mA
U4
SII1136
I2C_addr:
0x76, 0x7E, 0xC4
DVDD1v2: max. 100+40mA
DVDD3v3: max. 4mA
R37 4.02k
R140
1k
Sheet: /HDMI/
File: hdmi.kicad_sch
Title: OSSC Pro
Size: A4
Date: 2024-05-26
Rev: 1.6
KiCad E.D.A. 9.0.6
Id: 12/18

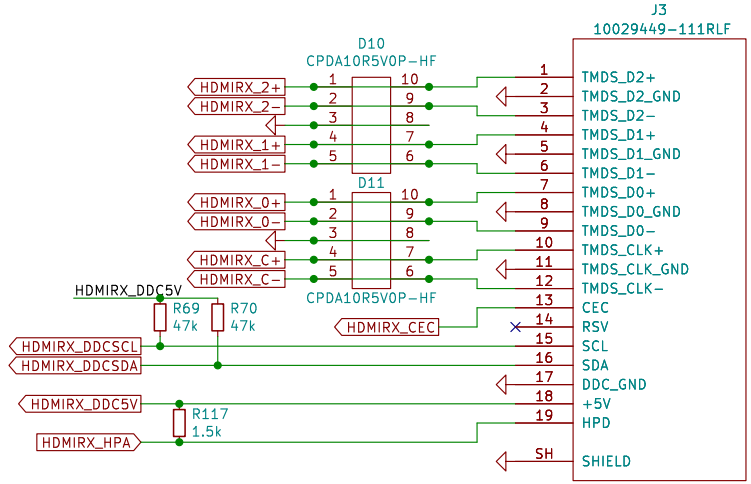


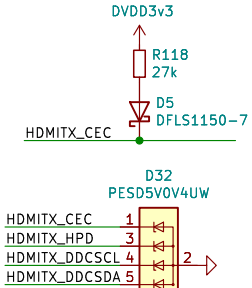
Sheet: /I/O – Analog AV/
File: io_analog_av.kicad_sch

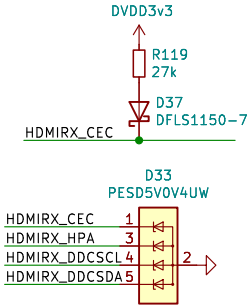
Title: OSSC Pro

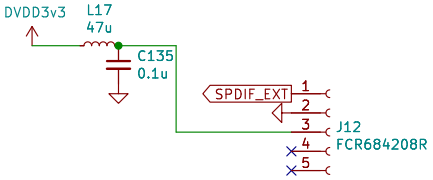
Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 13/18







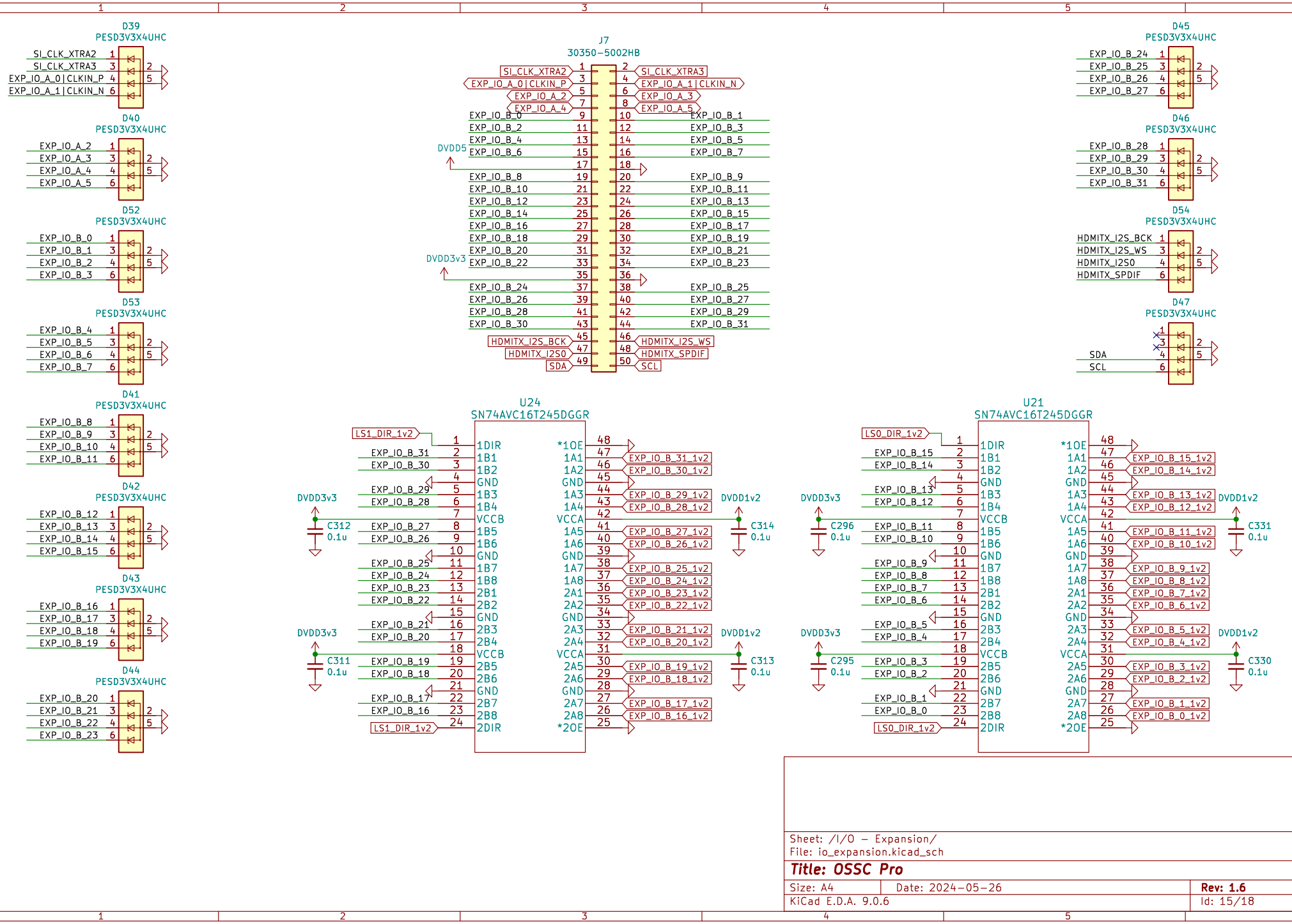




Sheet: /I/O – Digital AV/
File: io_digital_av.kicad_sch

Title: OSSC Pro

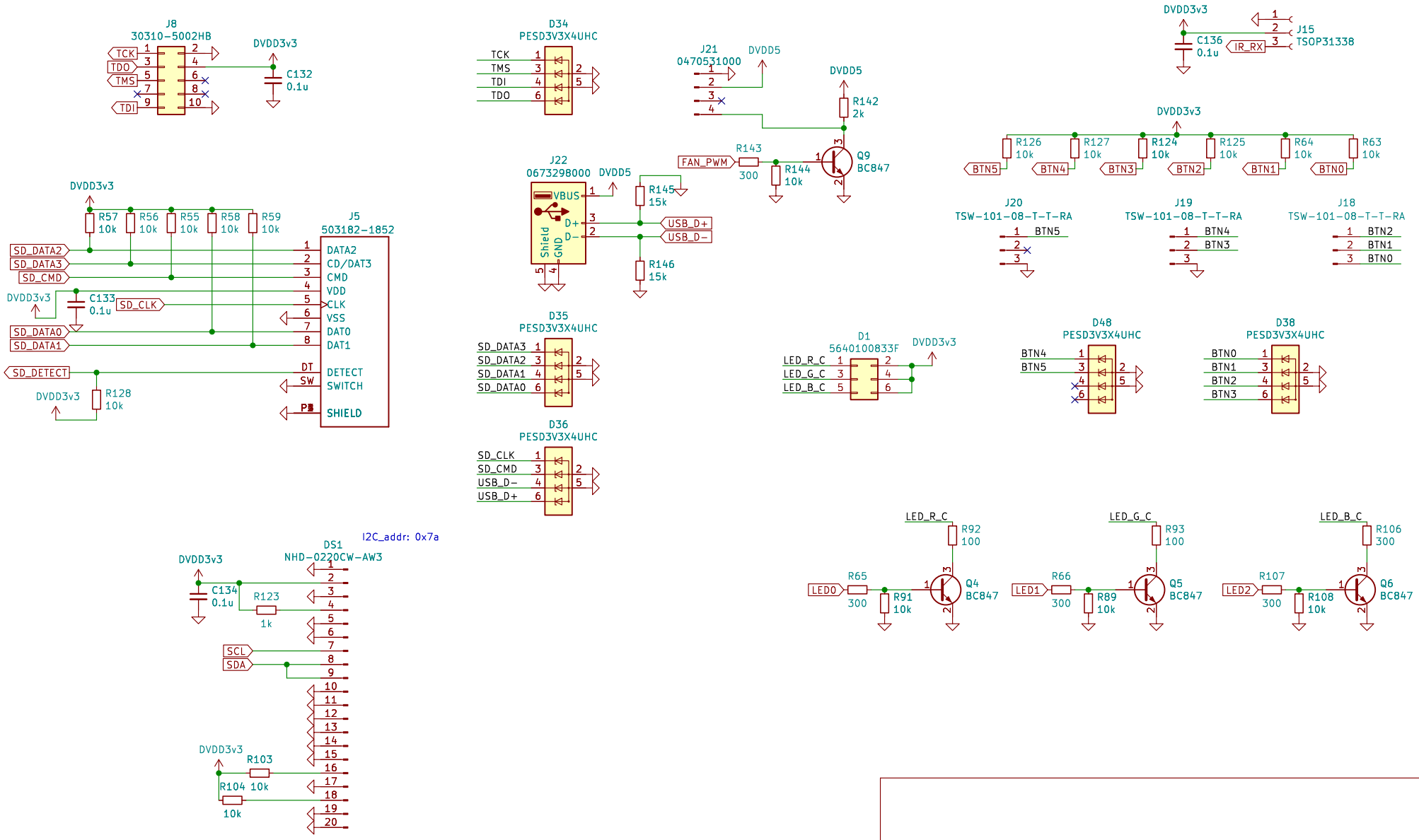
Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 14/18



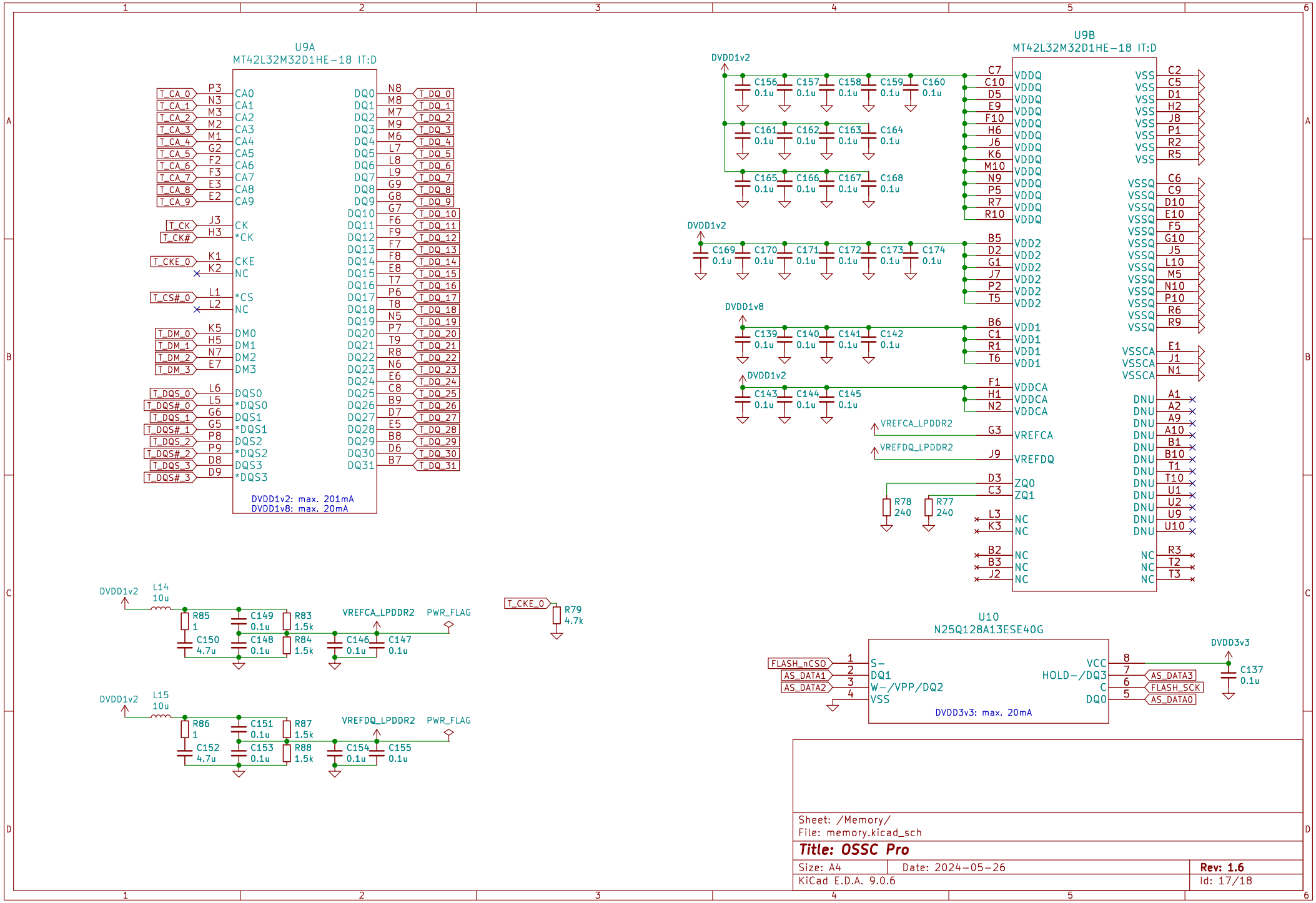
Sheet: /I/O – Expansion/
File: io_expansion.kicad_sch

Title: OSSC Pro

Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 15/18



Sheet: /I/O – User/		
File: io_user.kicad_sch		
Title: OSSC Pro		
Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 16/18


U9A
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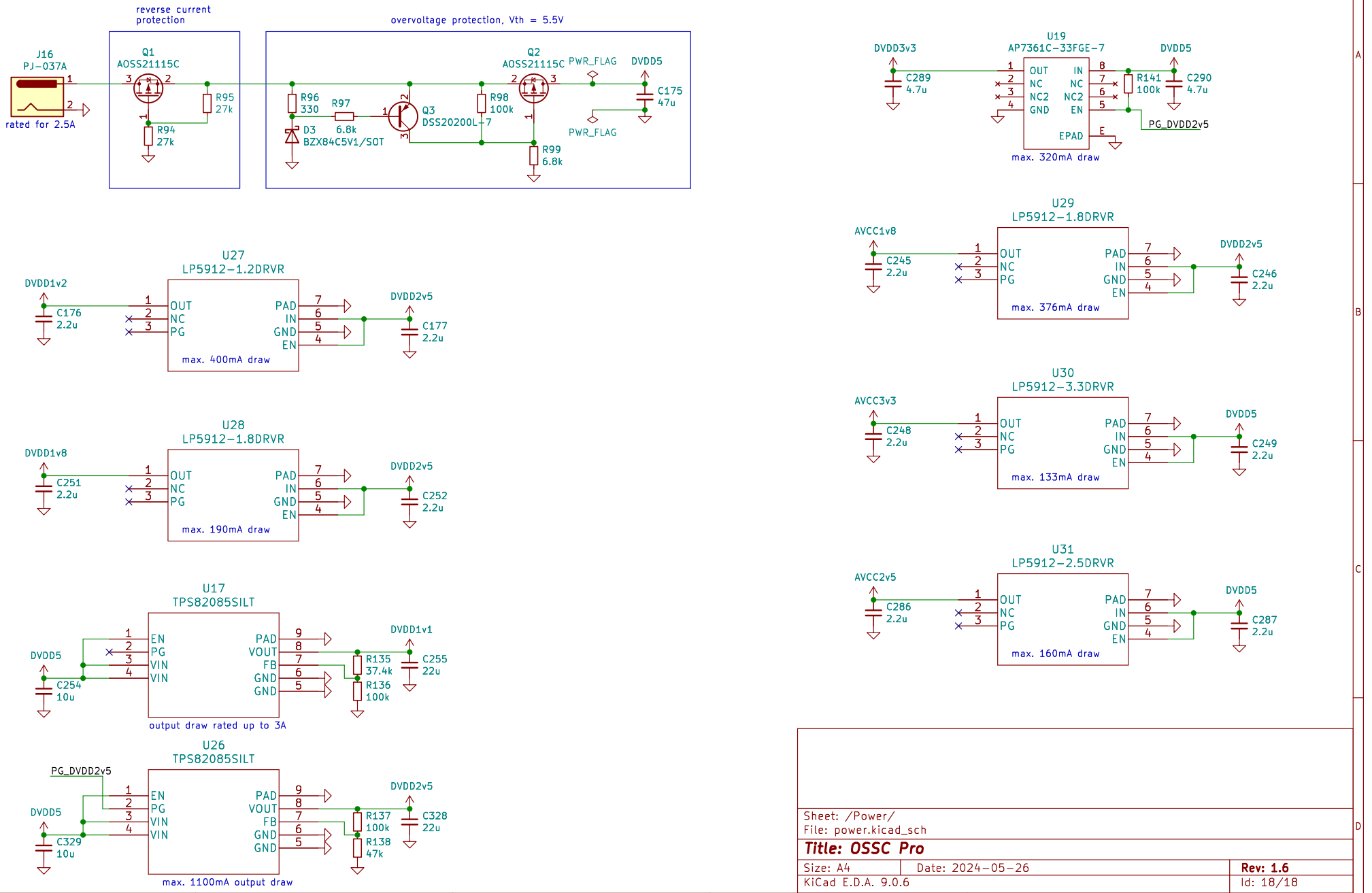
T_CA_0 P3 CA0
T_CA_1 N3 CA1
T_CA_2 M3 CA2
T_CA_3 M2 CA3
T_CA_4 M1 CA4
T_CA_5 G2 CA5
T_CA_6 F2 CA6
T_CA_7 F3 CA7
T_CA_8 E3 CA8
T_CA_9 E2 CA9
T_CK J3 CK
T_CK# H3 *CK
T_CKE_0 K1 CKE
K2 NC
T_CS#_0 L1 *CS
L2 NC
T_DM_0 K5 DM0
T_DM_1 H5 DM1
T_DM_2 N7 DM2
T_DM_3 E7 DM3
T_DQS_0 L6 DQS0
T_DQS#_0 L5 *DQS0
T_DQS_1 G6 DQS1
T_DQS#_1 G5 *DQS1
T_DQS_2 P8 DQS2
T_DQS#_2 P9 *DQS2
T_DQS_3 D8 DQS3
T_DQS#_3 D9 *DQS3
DQ0 N8 T_DQ_0
DQ1 M8 T_DQ_1
DQ2 M7 T_DQ_2
DQ3 M9 T_DQ_3
DQ4 M6 T_DQ_4
DQ5 L7 T_DQ_5
DQ6 L8 T_DQ_6
DQ7 L9 T_DQ_7
DQ8 G9 T_DQ_8
DQ9 G8 T_DQ_9
DQ10 G7 T_DQ_10
DQ11 F6 T_DQ_11
DQ12 F9 T_DQ_12
DQ13 F7 T_DQ_13
DQ14 F8 T_DQ_14
DQ15 E8 T_DQ_15
DQ16 T7 T_DQ_16
DQ17 P6 T_DQ_17
DQ18 T8 T_DQ_18
DQ19 N5 T_DQ_19
DQ20 P7 T_DQ_20
DQ21 T9 T_DQ_21
DQ22 R8 T_DQ_22
DQ23 N6 T_DQ_23
DQ24 E6 T_DQ_24
DQ25 C8 T_DQ_25
DQ26 B9 T_DQ_26
DQ27 D7 T_DQ_27
DQ28 E5 T_DQ_28
DQ29 B8 T_DQ_29
DQ30 D6 T_DQ_30
DQ31 B7 T_DQ_31
DVDD1v2: max. 201mA
DVDD1v8: max. 20mA
U9B
MT42L32M32D1HE-18 IT:D
DVDD1v2
C156 0.1u
C157 0.1u
C158 0.1u
C159 0.1u
C160 0.1u
C161 0.1u
C162 0.1u
C163 0.1u
C164 0.1u
C165 0.1u
C166 0.1u
C167 0.1u
C168 0.1u
C7 VDDQ
C10 VDDQ
D5 VDDQ
E9 VDDQ
F10 VDDQ
H6 VDDQ
J6 VDDQ
K6 VDDQ
M10 VDDQ
N9 VDDQ
P5 VDDQ
R7 VDDQ
R10 VDDQ
DVDD1v2
C169 0.1u
C170 0.1u
C171 0.1u
C172 0.1u
C173 0.1u
C174 0.1u
B5 VDD2
D2 VDD2
G1 VDD2
J7 VDD2
P2 VDD2
T5 VDD2
DVDD1v8
C139 0.1u
C140 0.1u
C141 0.1u
C142 0.1u
B6 VDD1
C1 VDD1
R1 VDD1
T6 VDD1
DVDD1v2
C143 0.1u
C144 0.1u
C145 0.1u
F1 VDDCA
H1 VDDCA
N2 VDDCA
VREFCA_LPDDR2
G3 VREFCA
VREFDQ_LPDDR2
J9 VREFDQ
D3 ZQ0
C3 ZQ1
R78 240
R77 240
L3 NC
K3 NC
B2 NC
B3 NC
J2 NC
C2 VSS
C5 VSS
D1 VSS
H2 VSS
J8 VSS
P1 VSS
R2 VSS
R5 VSS
C6 VSSQ
C9 VSSQ
D10 VSSQ
E10 VSSQ
F5 VSSQ
G10 VSSQ
J5 VSSQ
L10 VSSQ
M5 VSSQ
N10 VSSQ
P10 VSSQ
R6 VSSQ
R9 VSSQ
E1 VSSCA
J1 VSSCA
N1 VSSCA
A1 DNU
A2 DNU
A9 DNU
A10 DNU
B1 DNU
B10 DNU
T1 DNU
T10 DNU
U1 DNU
U2 DNU
U9 DNU
U10 DNU
R3 NC
T2 NC
T3 NC
DVDD1v2
L14
10u
R85 1
C150 4.7u
C149 0.1u
C148 0.1u
R83 1.5k
R84 1.5k
C146 0.1u
C147 0.1u
VREFCA_LPDDR2
PWR_FLAG
T_CKE_0
R79 4.7k
DVDD1v2
L15
10u
R86 1
C152 4.7u
C151 0.1u
C153 0.1u
R87 1.5k
R88 1.5k
C154 0.1u
C155 0.1u
VREFDQ_LPDDR2
PWR_FLAG
U10
N25Q128A13ESE40G
FLASH_nCS0 1 S-
AS_DATA1 2 DQ1
AS_DATA2 3 W-/VPP/DQ2
4 VSS
VCC 8
HOLD-/DQ3 7 AS_DATA3
C 6 FLASH_SCK
DQ0 5 AS_DATA0
DVDD3v3: max. 20mA
DVDD3v3
C137 0.1u
Sheet: /Memory/
File: memory.kicad_sch
Title: OSSC Pro
Size: A4
Date: 2024-05-26
Rev: 1.6
KiCad E.D.A. 9.0.6
Id: 17/18



Sheet: /Power/
File: power.kicad_sch

Title: OSSC Pro

Size: A4	Date: 2024-05-26	**Rev: 1.6**
KiCad E.D.A. 9.0.6		Id: 18/18