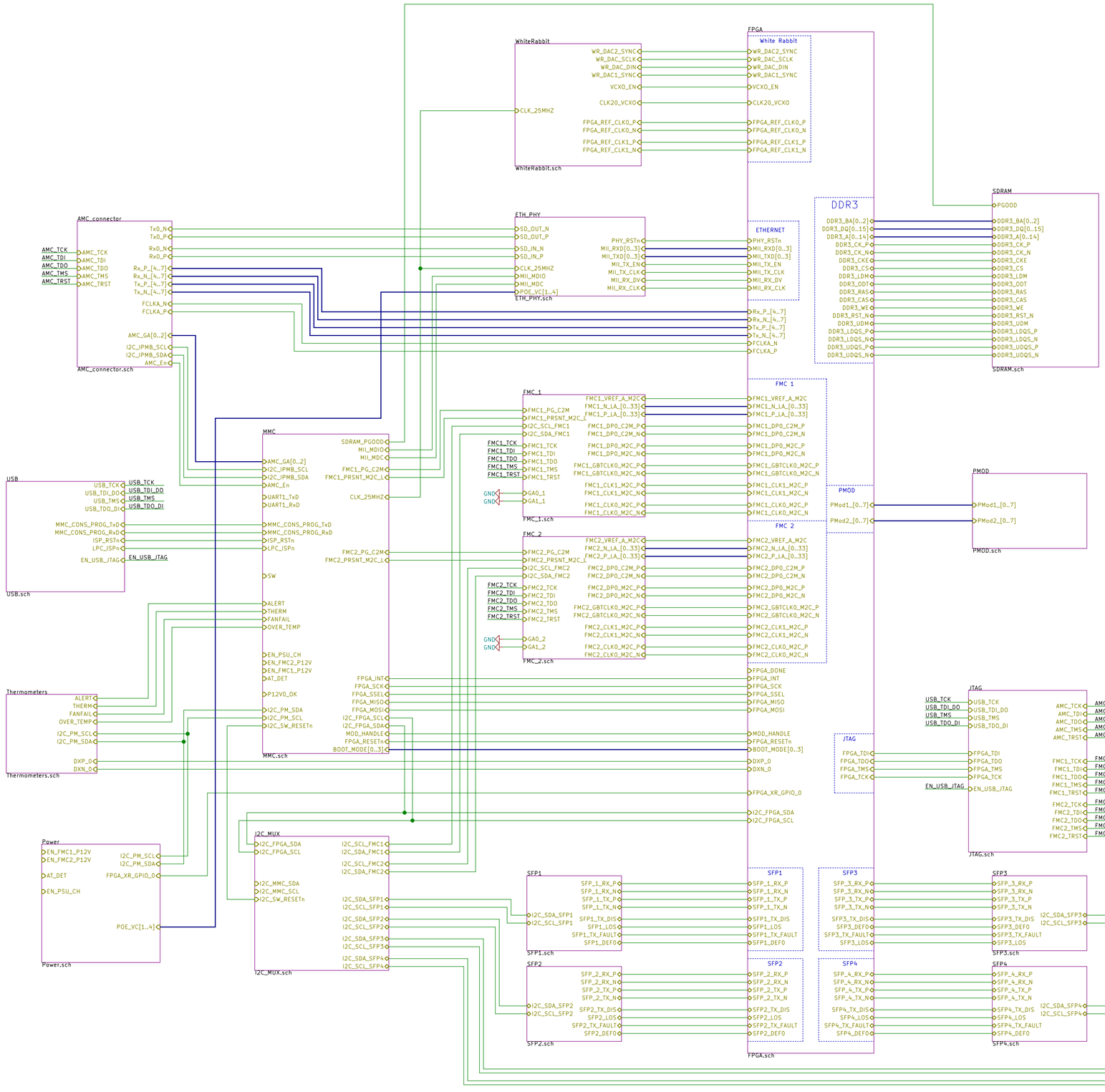

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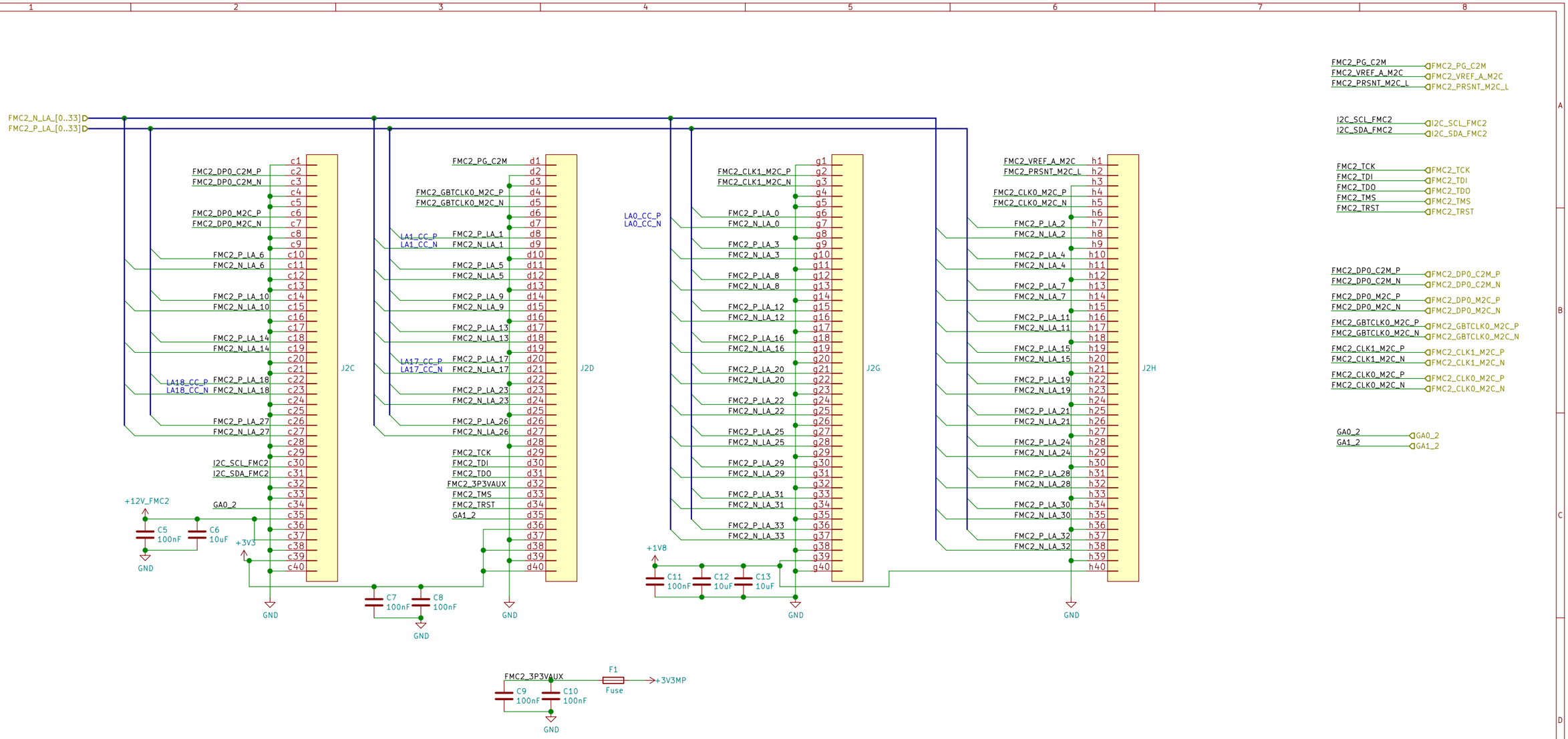
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69)		Id: 1/25



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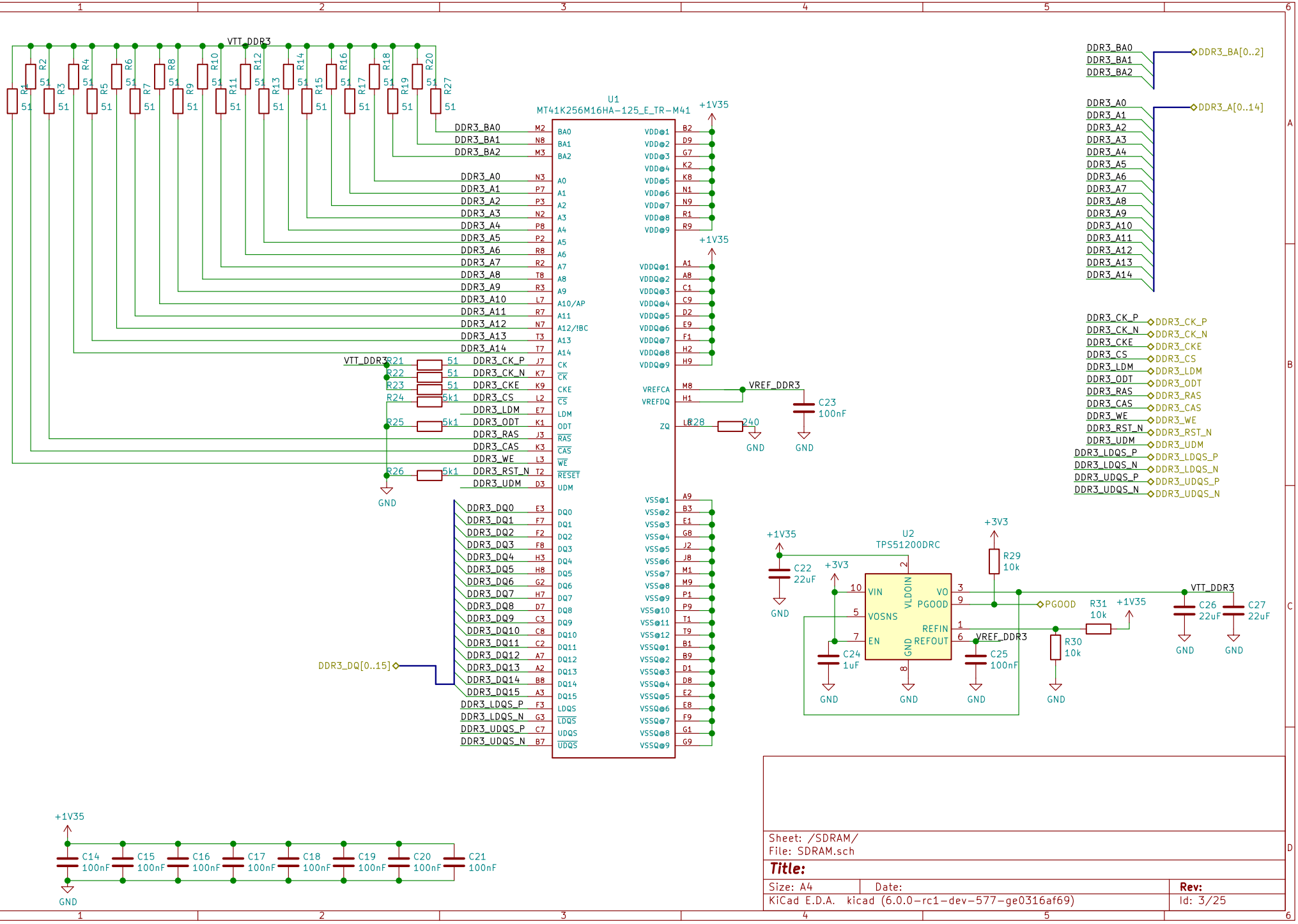
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69)		Id: 2/25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R3 51
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R5 51
R6 51
R7 51
R8 51
R9 51
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R13 51
R14 51
R15 51
R16 51
R17 51
R18 51
R19 51
R20 51
R27 51
U1
MT41K256M16HA-125_E_TR-M41
+1V35
DDR3_BA0 M2 BA0
DDR3_BA1 N8 BA1
DDR3_BA2 M3 BA2
DDR3_A0 N3 A0
DDR3_A1 P7 A1
DDR3_A2 P3 A2
DDR3_A3 N2 A3
DDR3_A4 P8 A4
DDR3_A5 P2 A5
DDR3_A6 R8 A6
DDR3_A7 R2 A7
DDR3_A8 T8 A8
DDR3_A9 R3 A9
DDR3_A10 L7 A10/AP
DDR3_A11 R7 A11
DDR3_A12 N7 A12/!BC
DDR3_A13 T3 A13
DDR3_A14 T7 A14
VTT_DDR3
R21 51 DDR3_CK_P J7 CK
R22 51 DDR3_CK_N K7 CK
R23 51 DDR3_CKE K9 CKE
R24 5k1 DDR3_CS L2 CS
DDR3_LDM E7 LDM
R25 5k1 DDR3_ODT K1 ODT
DDR3_RAS J3 RAS
DDR3_CAS K3 CAS
DDR3_WE L3 WE
R26 5k1 DDR3_RST_N T2 RESET
DDR3_UDM D3 UDM
GND
DDR3_DQ0 E3 DQ0
DDR3_DQ1 F7 DQ1
DDR3_DQ2 F2 DQ2
DDR3_DQ3 F8 DQ3
DDR3_DQ4 H3 DQ4
DDR3_DQ5 H8 DQ5
DDR3_DQ6 G2 DQ6
DDR3_DQ7 H7 DQ7
DDR3_DQ8 D7 DQ8
DDR3_DQ9 C3 DQ9
DDR3_DQ10 C8 DQ10
DDR3_DQ11 C2 DQ11
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DDR3_DQ13 A2 DQ13
DDR3_DQ14 B8 DQ14
DDR3_DQ15 A3 DQ15
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DDR3_LDQS_N G3 LDQS
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VDD@4 K2
VDD@5 K8
VDD@6 N1
VDD@7 N9
VDD@8 R1
VDD@9 R9
+1V35
VDDQ@1 A1
VDDQ@2 A8
VDDQ@3 C1
VDDQ@4 C9
VDDQ@5 D2
VDDQ@6 E9
VDDQ@7 F1
VDDQ@8 H2
VDDQ@9 H9
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VREFDQ H1
VREF_DDR3
C23 100nF
ZQ L8
R28 240
GND
GND
VSS@1 A9
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VSS@3 E1
VSS@4 G8
VSS@5 J2
VSS@6 J8
VSS@7 M1
VSS@8 M9
VSS@9 P1
VSS@10 P9
VSS@11 T1
VSS@12 T9
VSSQ@1 B1
VSSQ@2 B9
VSSQ@3 D1
VSSQ@4 D8
VSSQ@5 E2
VSSQ@6 E8
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VSSQ@8 G1
VSSQ@9 G9
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DDR3_A6
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DDR3_A8
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DDR3_CKE
DDR3_CS
DDR3_LDM
DDR3_ODT
DDR3_RAS
DDR3_CAS
DDR3_WE
DDR3_RST_N
DDR3_UDM
DDR3_LDQS_P
DDR3_LDQS_N
DDR3_UDQS_P
DDR3_UDQS_N
+1V35
C22 22uF
GND
U2
TPS51200DRC
+3V3
10 VIN
5 VOSNS
7 EN
2 VLDOIN
GND 8
3 VO
9 PGOOD
1 REFIN
6 REFOUT
C24 1uF
GND
GND
GND
C25 100nF
VREF_DDR3
+3V3
R29 10k
PGOOD
R31 10k
+1V35
R30 10k
GND
VTT_DDR3
C26 22uF
C27 22uF
GND
GND
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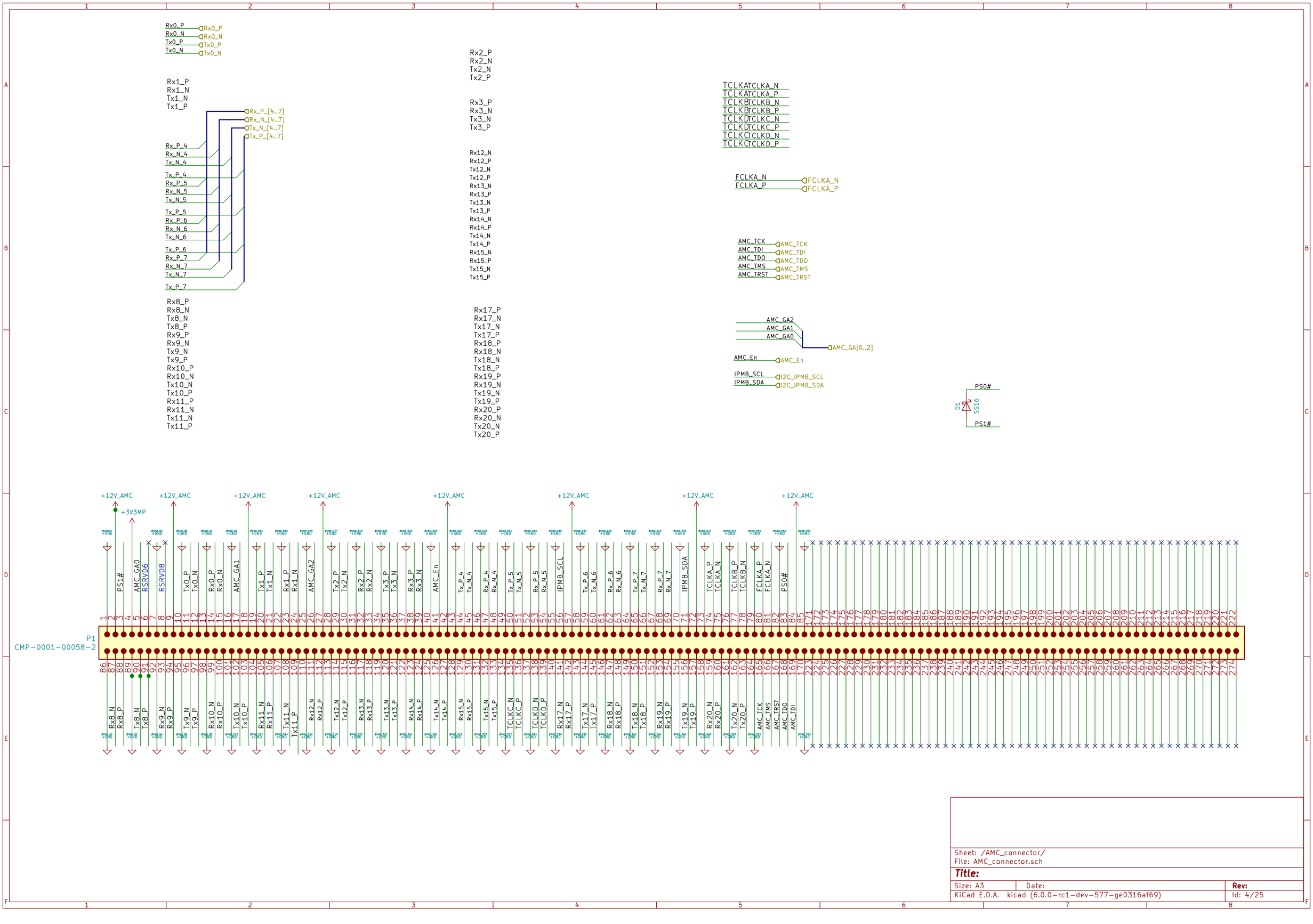
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69)
Id: 3/25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Tx1_P
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Rx_N_[4..7]
Tx_N_[4..7]
Tx_P_[4..7]
Rx_P_4
Rx_N_4
Tx_N_4
Tx_P_4
Rx_P_5
Rx_N_5
Tx_N_5
Tx_P_5
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Rx8_P
Rx8_N
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Tx8_P
Rx9_P
Rx9_N
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Tx9_P
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Rx10_N
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TCLKBTCLKB_P
TCLKDTCLKC_N
TCLKDTCLKC_P
TCLKCTCLKD_N
TCLKCTCLKD_P
FCLKA_N
FCLKA_P
FCLKA_N
FCLKA_P
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AMC_TDI
AMC_TDO
AMC_TMS
AMC_TRST
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AMC_TDI
AMC_TDO
AMC_TMS
AMC_TRST
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AMC_GA1
AMC_GA0
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AMC_En
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IPMB_SDA
I2C_IPMB_SCL
I2C_IPMB_SDA
PS0#
D1
SS16
PS1#
+12V_AMC
+3V3MP
P1
CMP-0001-00058-2
PS1#
AMC_GA0
RSRVD6
RSRVD8
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Rx0_P
Rx0_N
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Tx1_N
Rx1_P
Rx1_N
AMC_GA2
Tx2_P
Tx2_N
Rx2_P
Rx2_N
Tx3_P
Tx3_N
Rx3_P
Rx3_N
AMC_En
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Rx_P_6
Rx_N_6
Tx_P_7
Tx_N_7
Rx_P_7
Rx_N_7
IPMB_SDA
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TCLKB_N
FCLKA_P
FCLKA_N
PS0#
Rx8_N
Rx8_P
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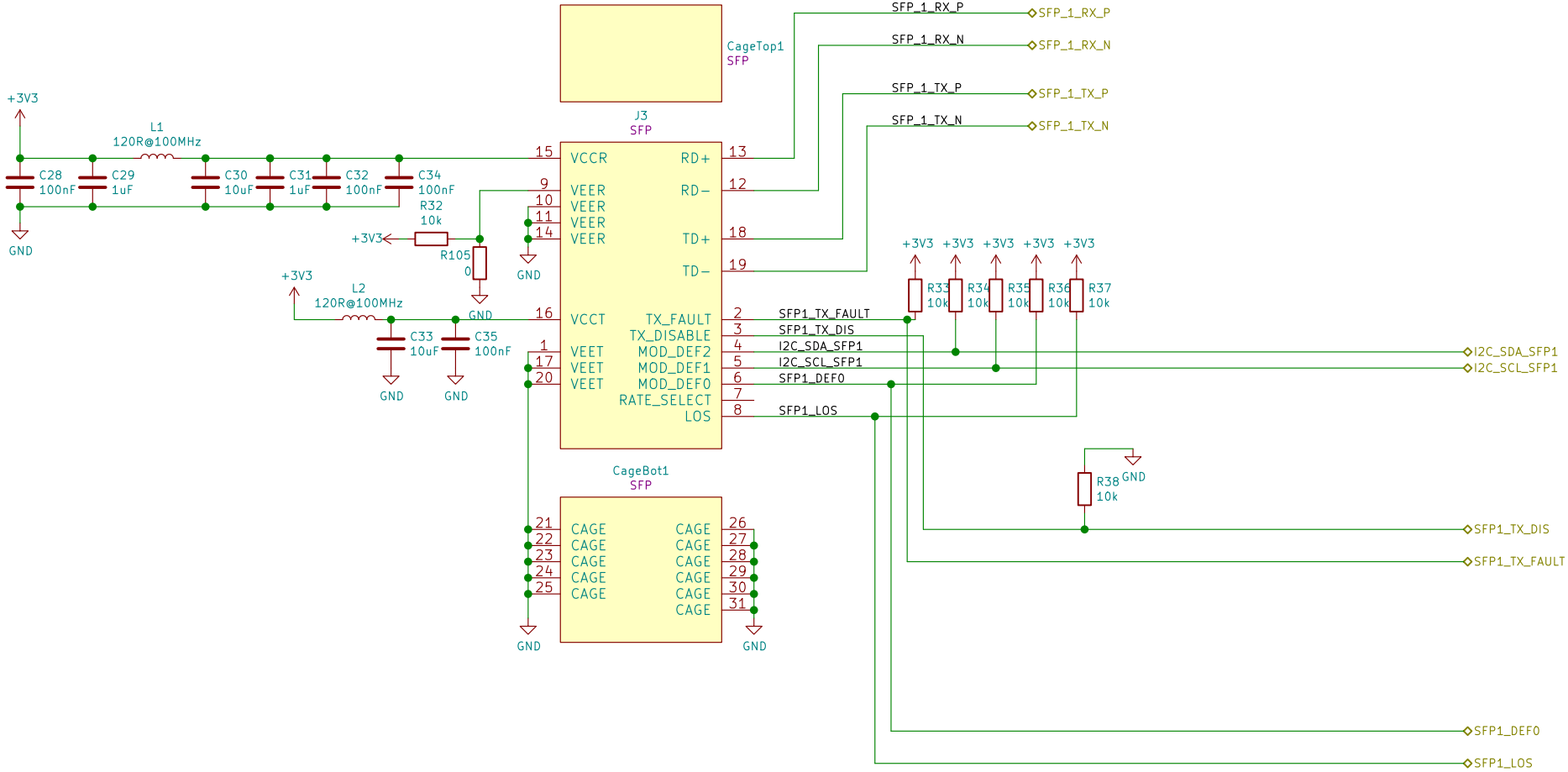
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69)
Id: 4/25



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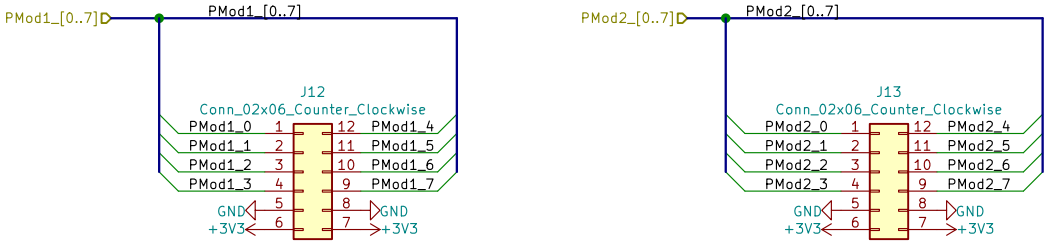

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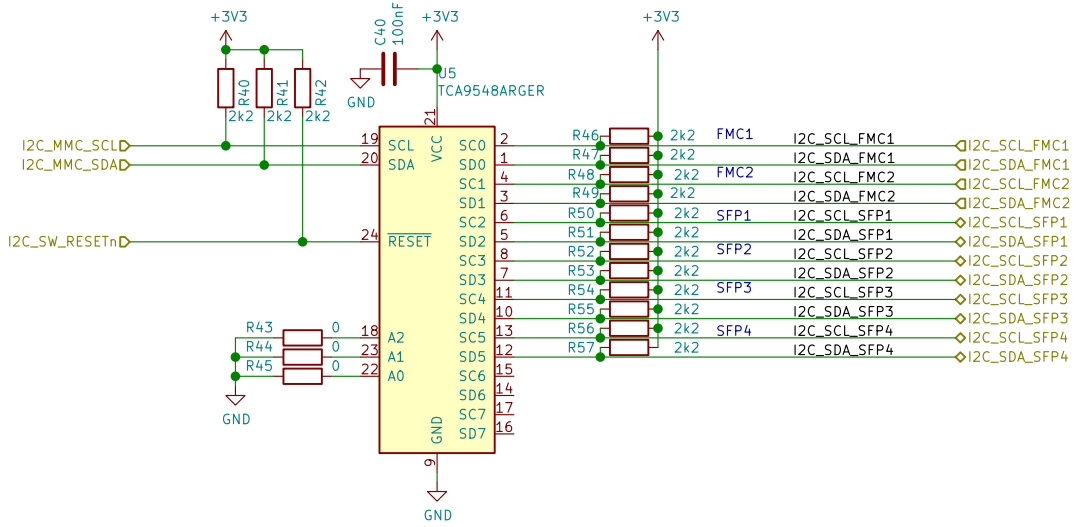

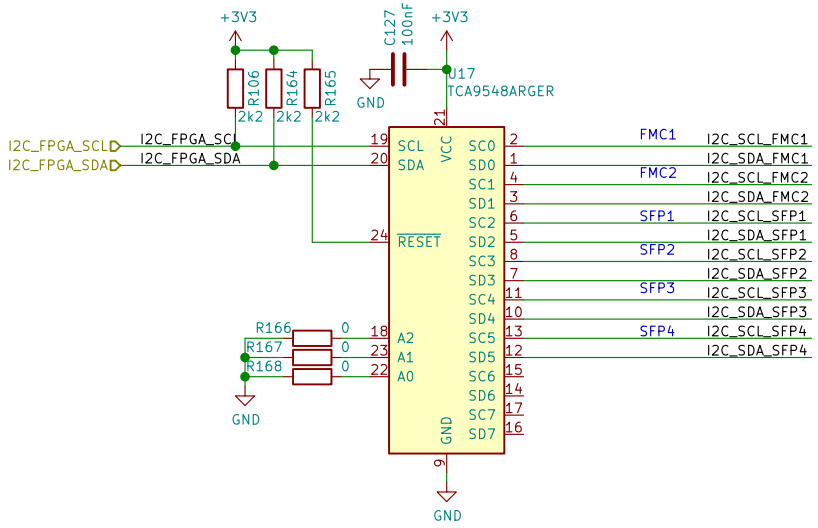

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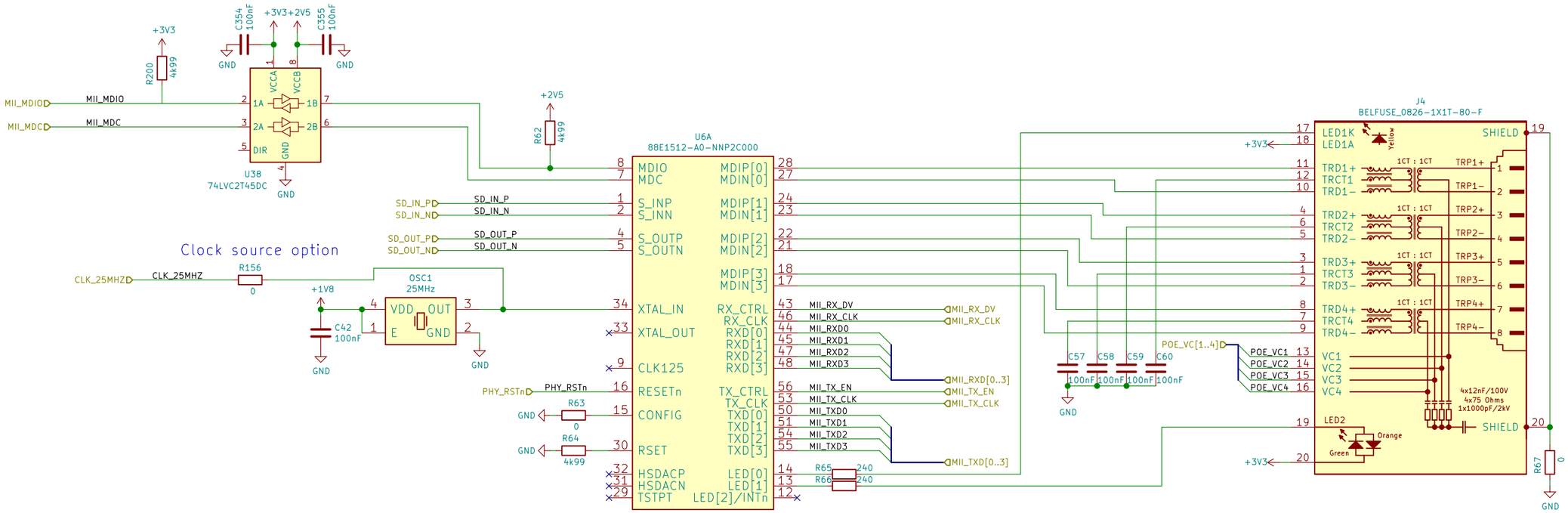

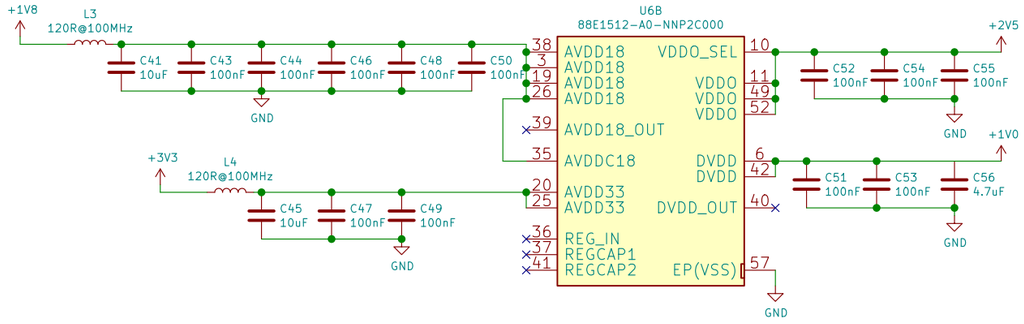

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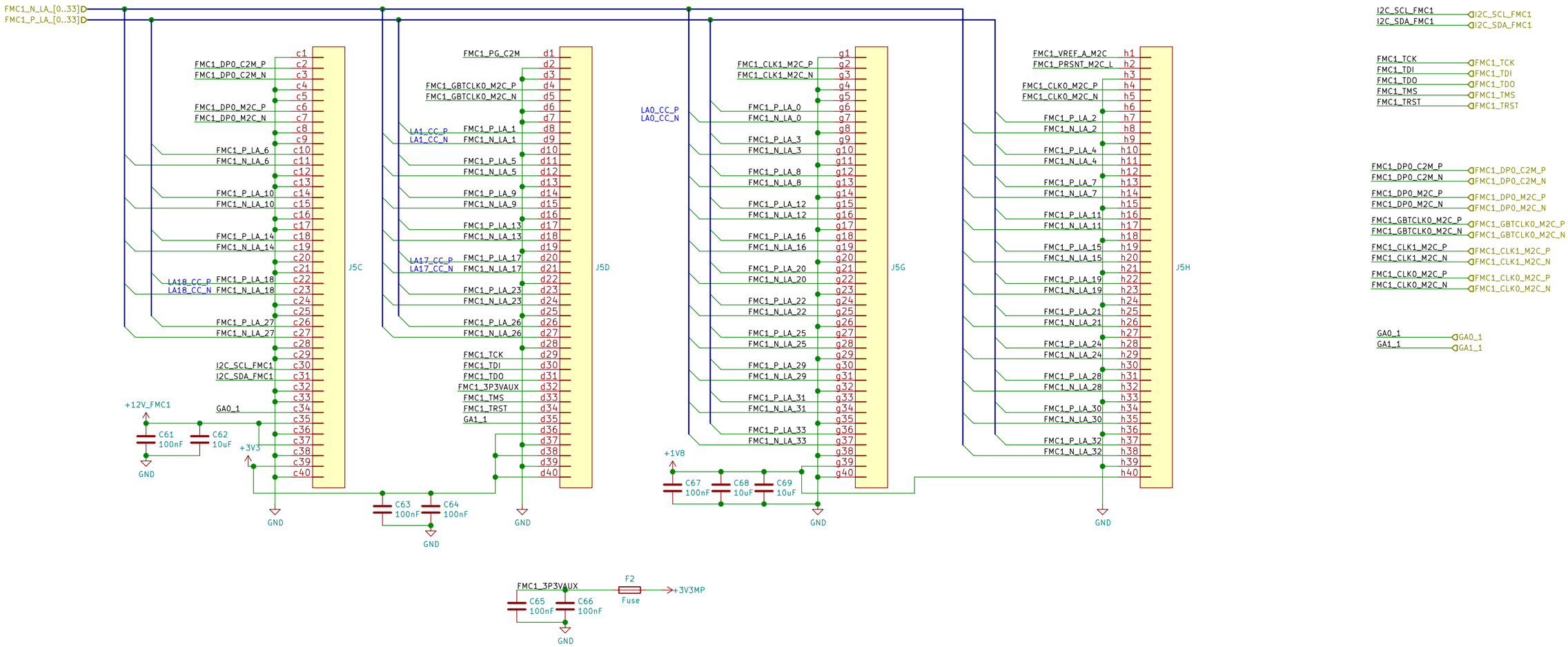

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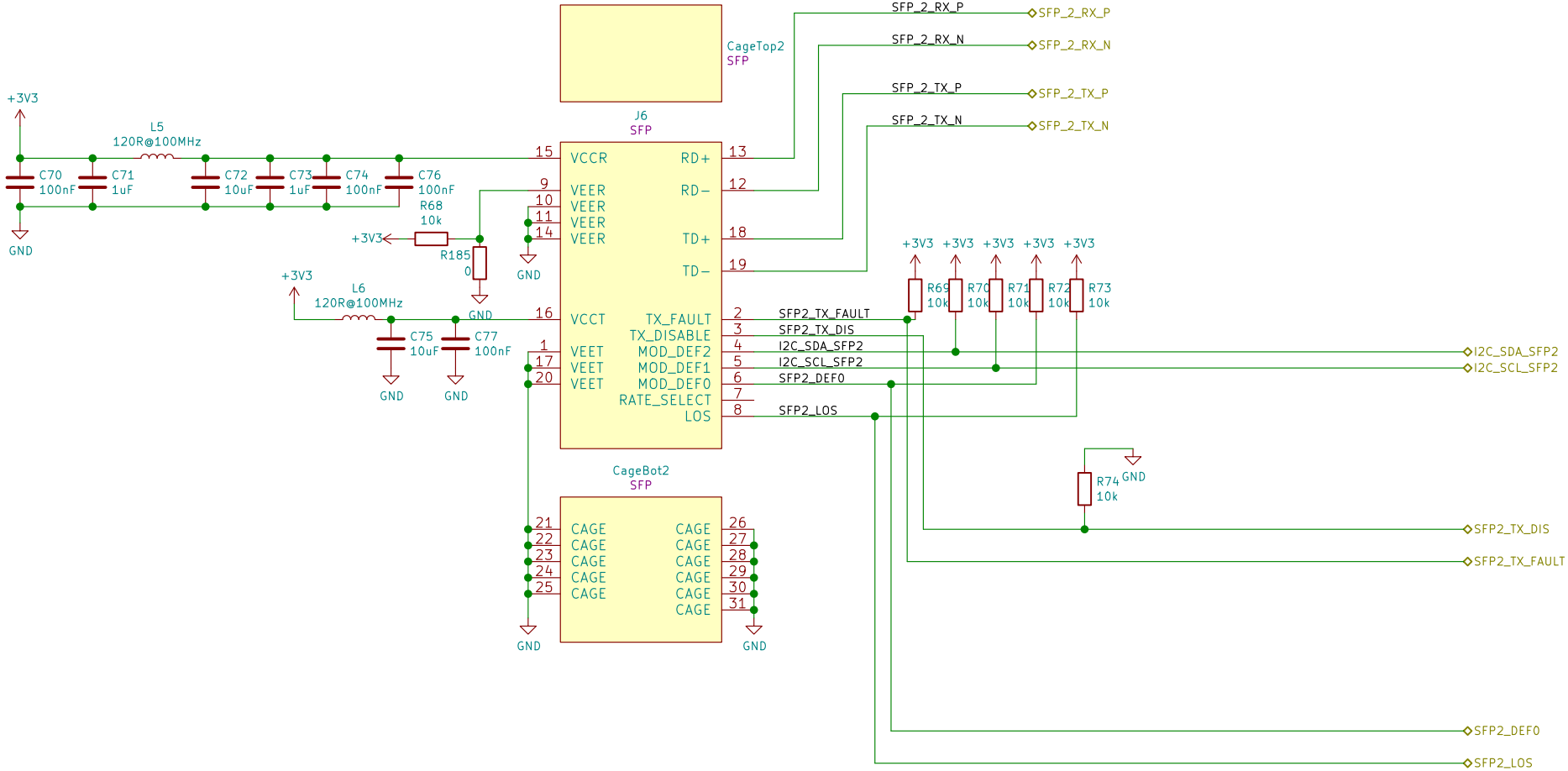

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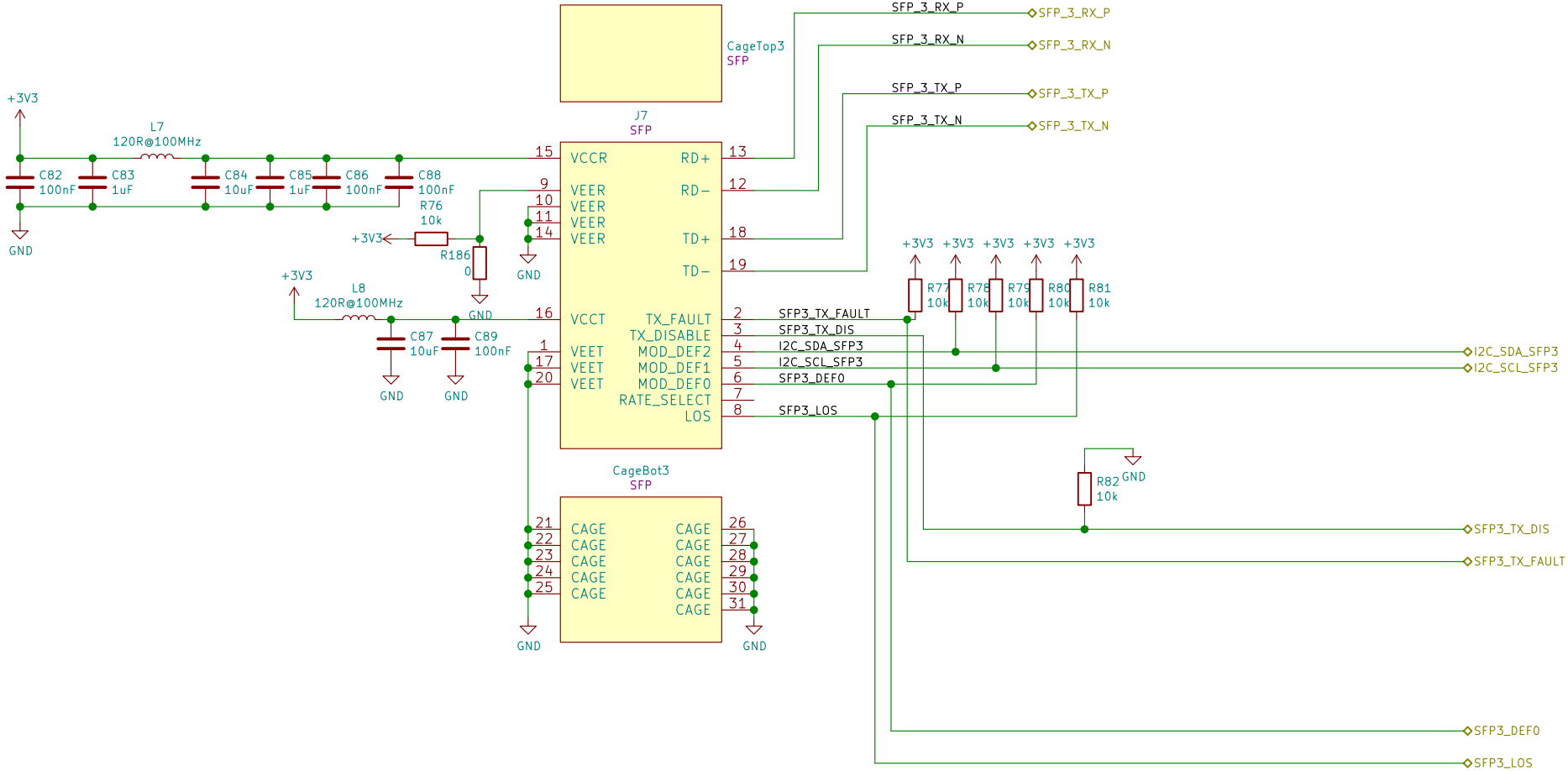

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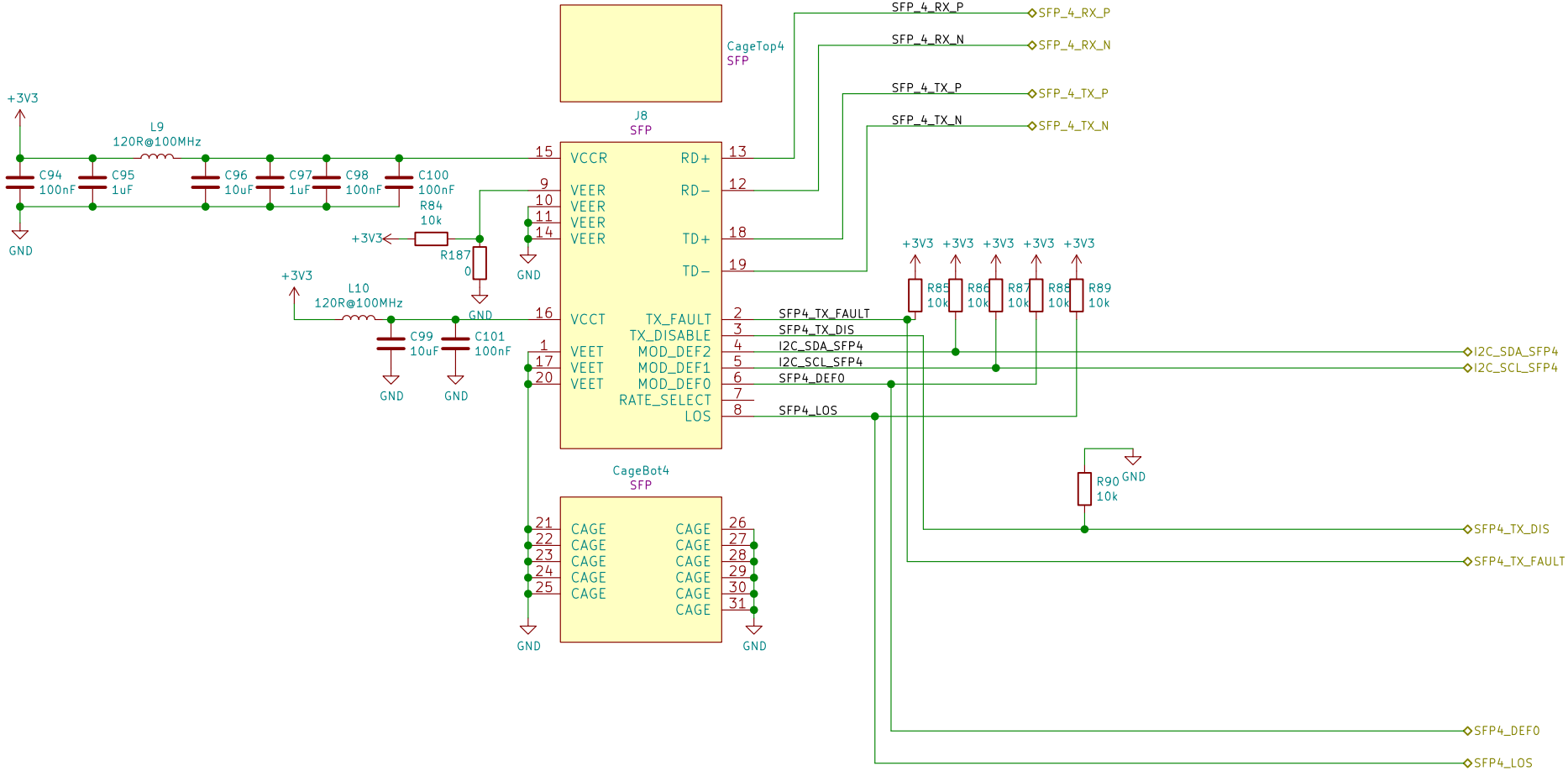

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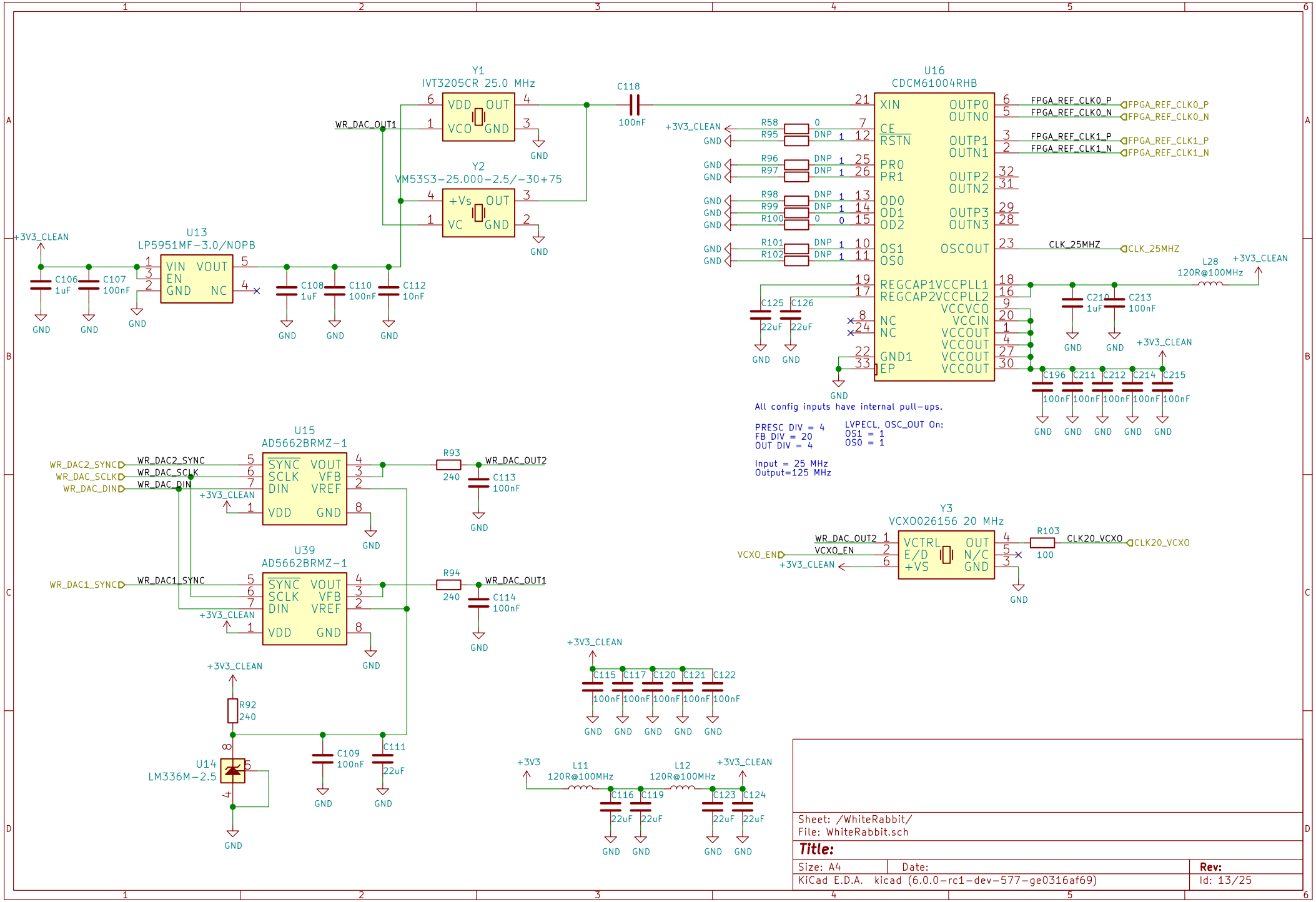

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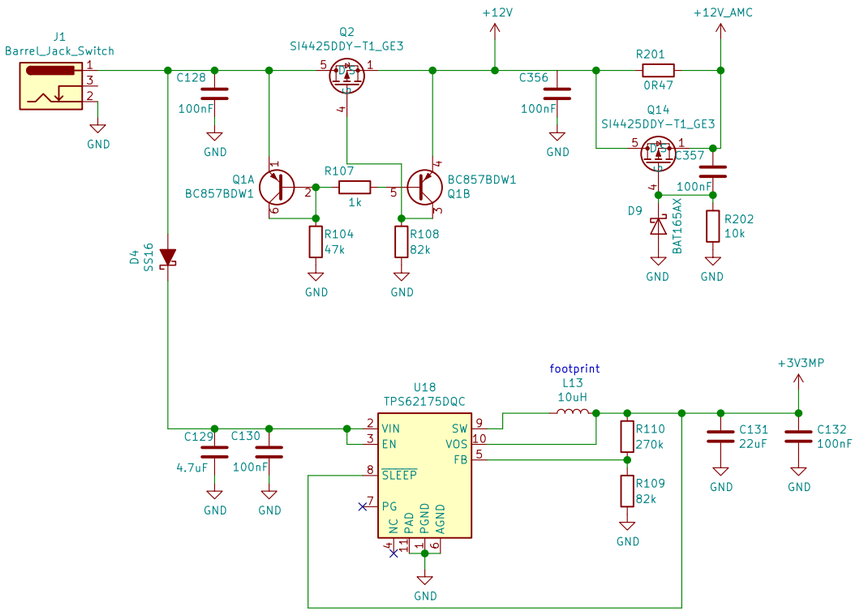

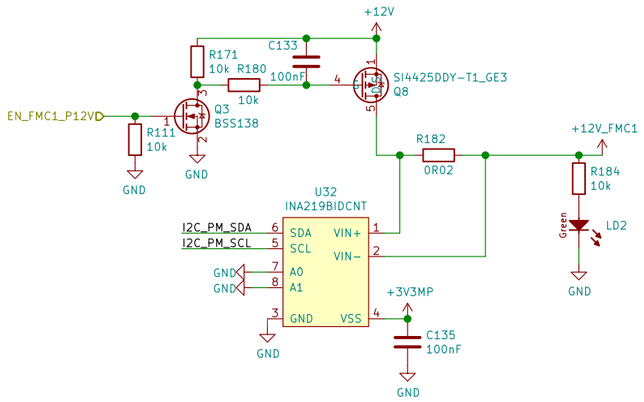

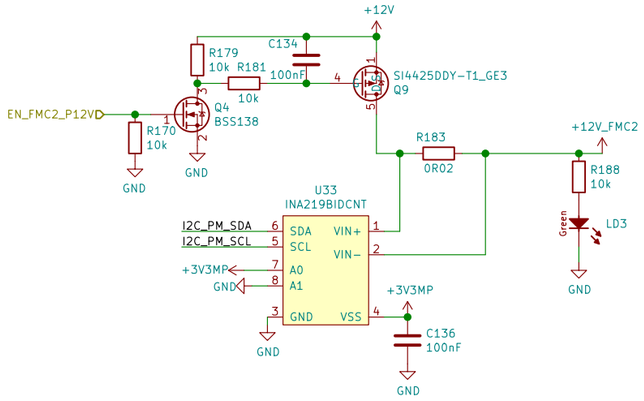

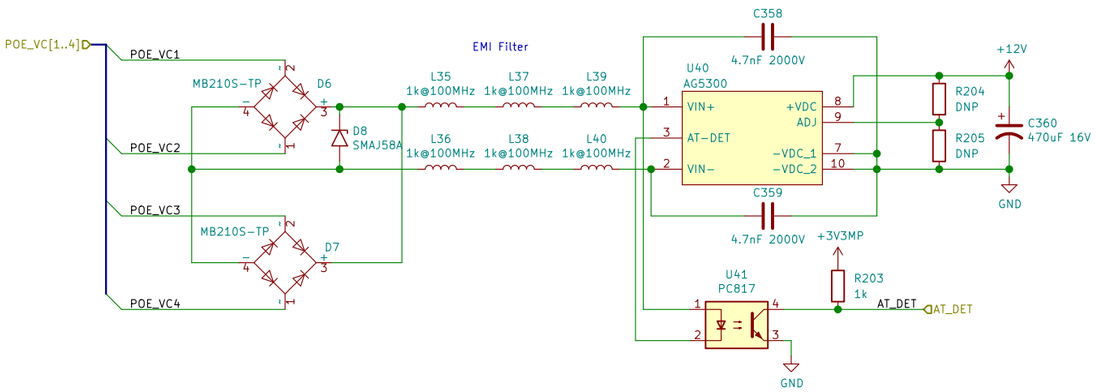

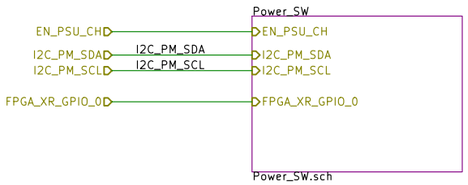

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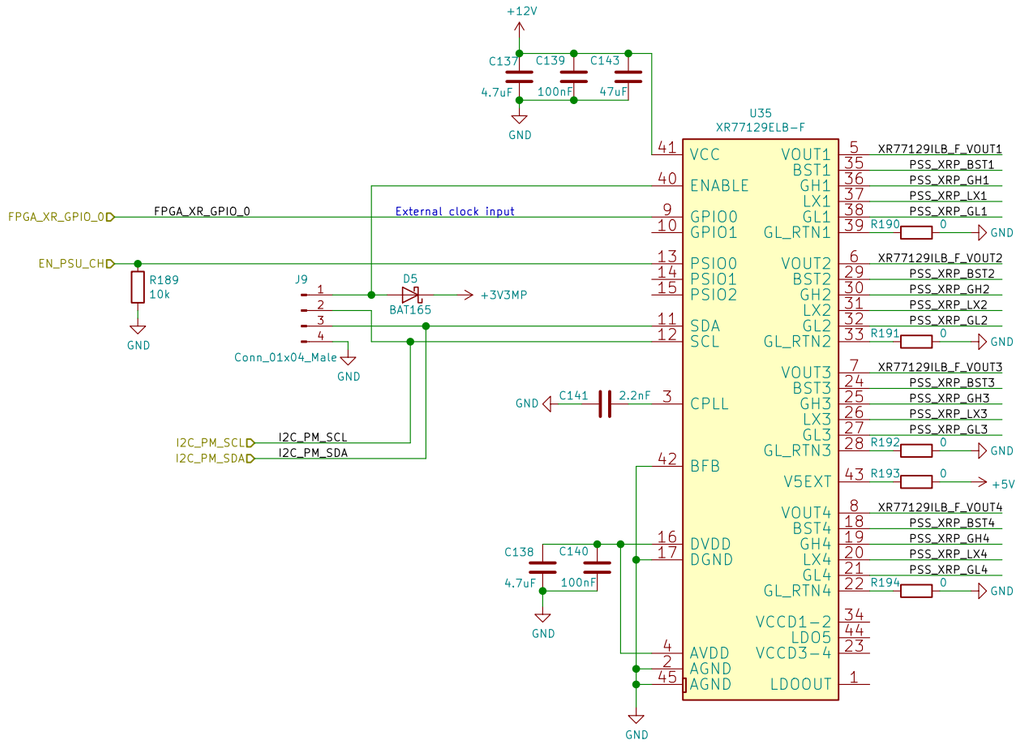

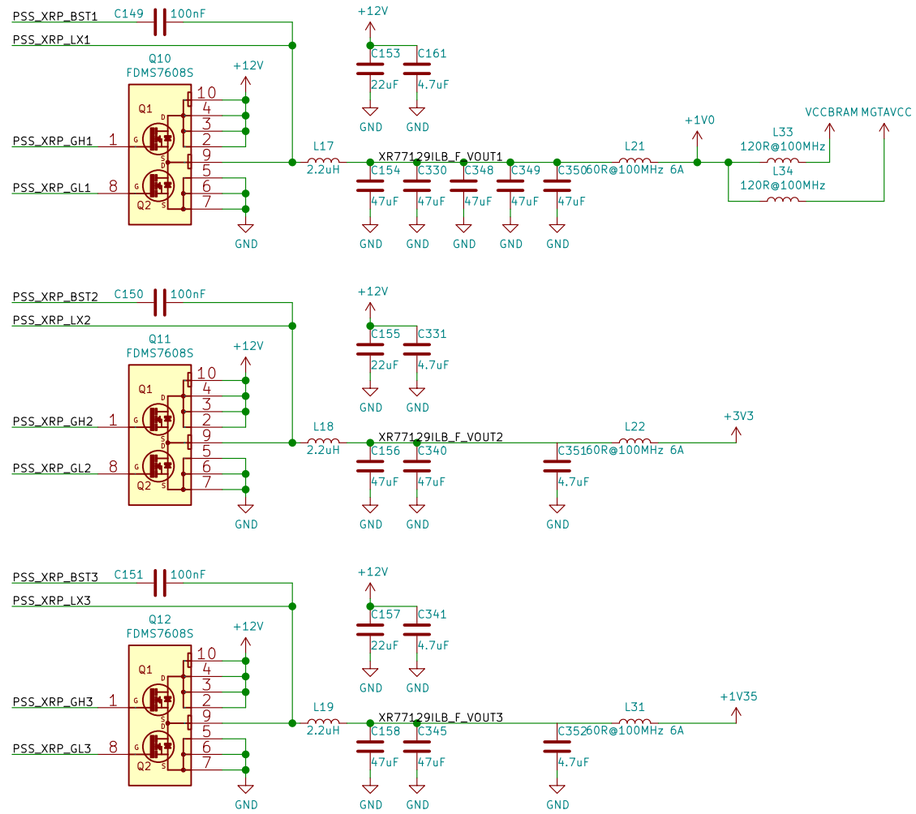

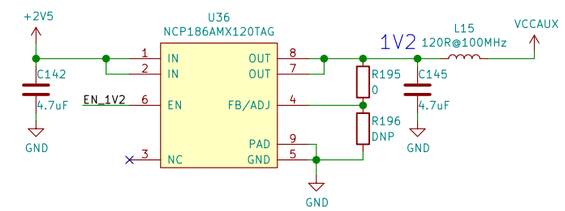

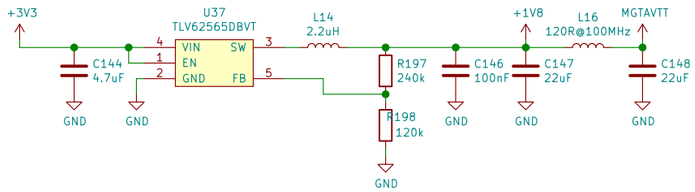

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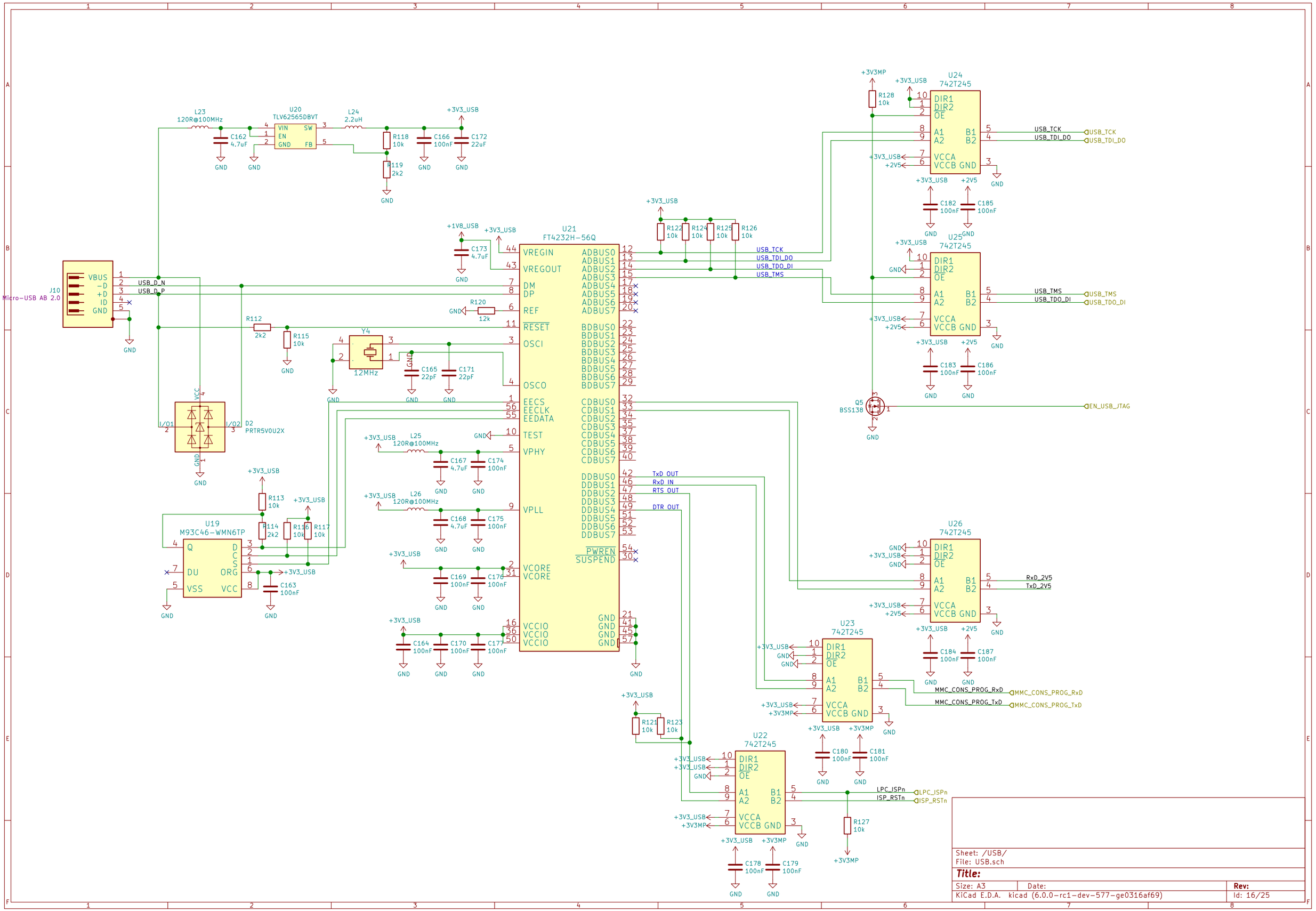
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DM
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REF
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OSCI
OSCO
EECS
EECLK
EEDATA
TEST
VPHY
VPLL
VCORE
VCORE
VCCIO
VCCIO
VCCIO
ADBUS0
ADBUS1
ADBUS2
ADBUS3
ADBUS4
ADBUS5
ADBUS6
ADBUS7
BDBUS0
BDBUS1
BDBUS2
BDBUS3
BDBUS4
BDBUS5
BDBUS6
BDBUS7
CDBUS0
CDBUS1
CDBUS2
CDBUS3
CDBUS4
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CDBUS6
CDBUS7
DDBUS0
DDBUS1
DDBUS2
DDBUS3
DDBUS4
DDBUS5
DDBUS6
DDBUS7
PWREN
SUSPEND
GND
TxD_OUT
RxD_IN
RTS_OUT
DTR_OUT
U20
TLV62565DBVT
VIN
EN
GND
SW
FB
L23
120R@100MHz
L24
2.2uH
L25
120R@100MHz
L26
120R@100MHz
C162
4.7uF
C166
100nF
C172
22uF
C173
4.7uF
C165
22pF
C171
22pF
C167
4.7uF
C174
100nF
C168
4.7uF
C175
100nF
C169
100nF
C176
100nF
C164
100nF
C170
100nF
C177
100nF
C163
100nF
R118
10k
R119
2k2
R120
12k
R112
2k2
R115
10k
R113
10k
R114
2k2
R116
10k
R117
10k
R122
10k
R124
10k
R125
10k
R126
10k
R121
10k
R123
10k
Y4
12MHz
J10
Micro-USB AB 2.0
VBUS
-D
+D
ID
GND
USB_D_N
USB_D_P
D2
PRTR5V0U2X
I/O1
I/O2
VCC
U19
M93C46-WMN6TP
Q
D
C
S
DU
ORG
VSS
VCC
+3V3_USB
+1V8_USB
+3V3MP
+2V5
U24
742T245
U25
742T245
U26
742T245
U23
742T245
U22
742T245
DIR1
DIR2
OE
A1
A2
B1
B2
VCCA
VCCB
R128
10k
C182
100nF
C185
100nF
C183
100nF
C186
100nF
C184
100nF
C187
100nF
C180
100nF
C181
100nF
C178
100nF
C179
100nF
R127
10k
Q5
BSS138
USB_TCK
USB_TDI_DO
USB_TDO_DI
USB_TMS
EN_USB_JTAG
RxD_2V5
TxD_2V5
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MMC_CONS_PROG_TxD
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ISP_RSTn
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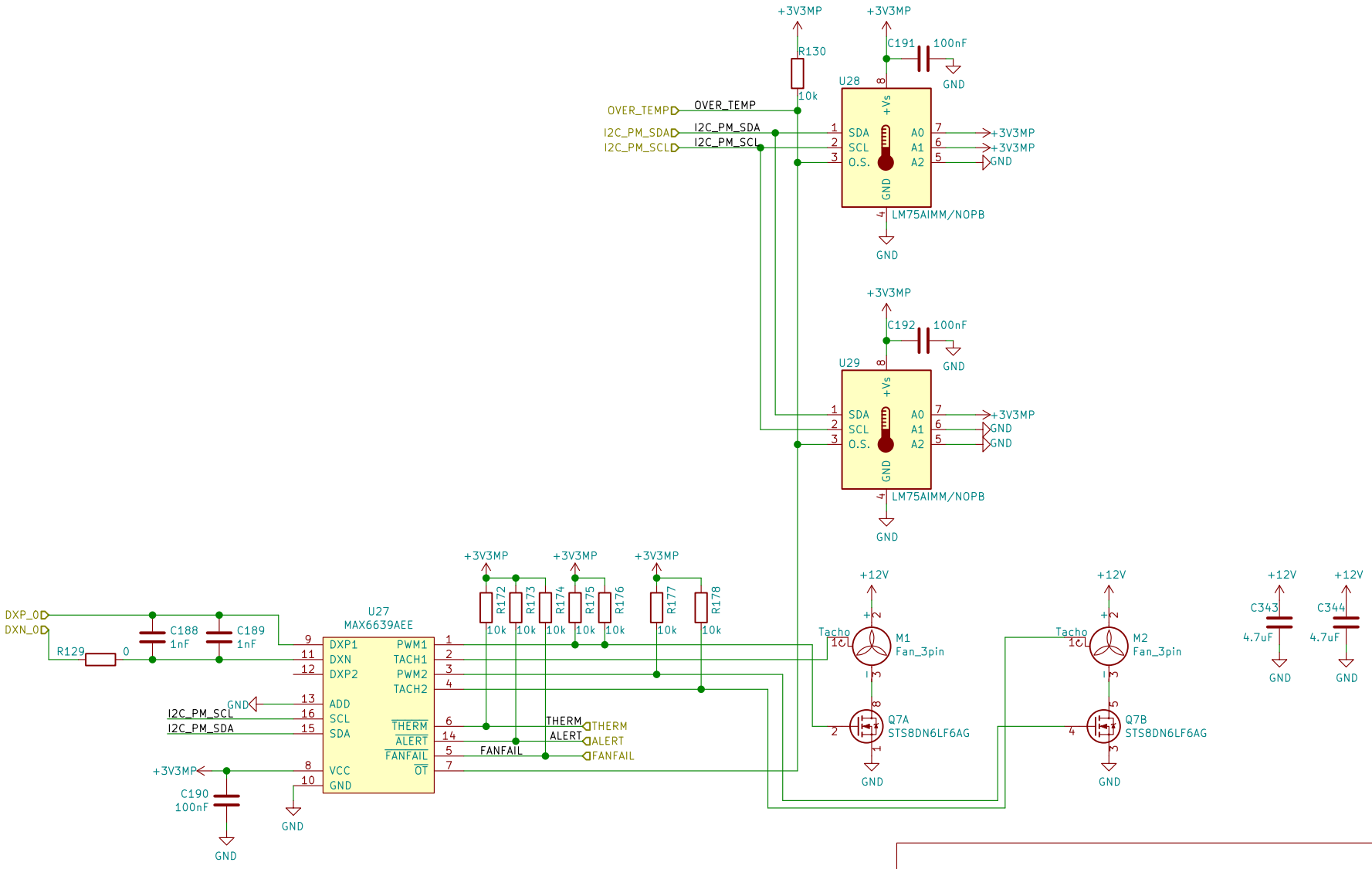
Size: A3
Date:
Rev:
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69)
Id: 16/25



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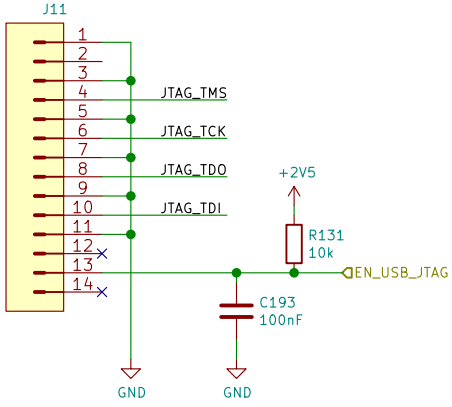
Size: A4 | Date: | **Rev:**

KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69) | Id: 17/25



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USB_TDI_DO — USB_TDI_DO
USB_TMS — USB_TMS
USB_TDO_DI — USB_TDO_DI

AMC_TCK — AMC_TCK
AMC_TDI — AMC_TDI
AMC_TDO — AMC_TDO
AMC_TMS — AMC_TMS
AMC_TRST — AMC_TRST

FMC1_TCK — FMC1_TCK
FMC1_TDI — FMC1_TDI
FMC1_TDO — FMC1_TDO
FMC1_TMS — FMC1_TMS
FMC1_TRST — FMC1_TRST

FMC2_TCK — FMC2_TCK
FMC2_TDI — FMC2_TDI
FMC2_TDO — FMC2_TDO
FMC2_TMS — FMC2_TMS
FMC2_TRST — FMC2_TRST

FPGA_TDI — FPGA_TDI
FPGA_TDO — FPGA_TDO
FPGA_TMS — FPGA_TMS
FPGA_TCK — FPGA_TCK

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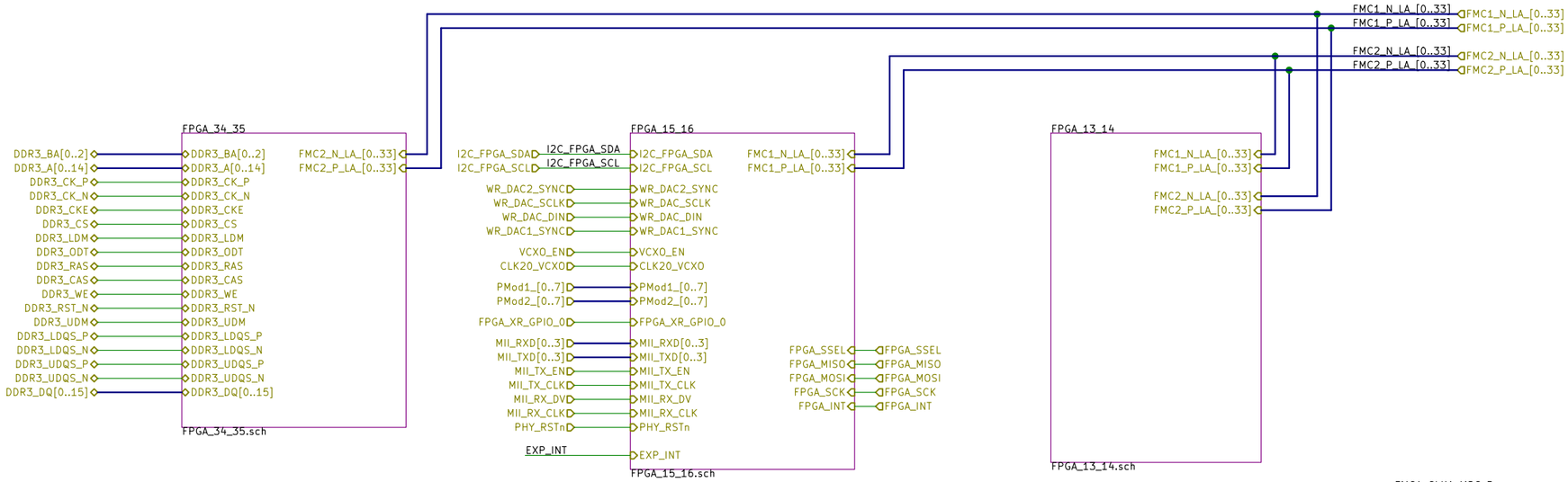
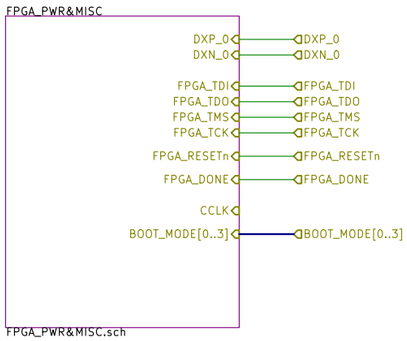
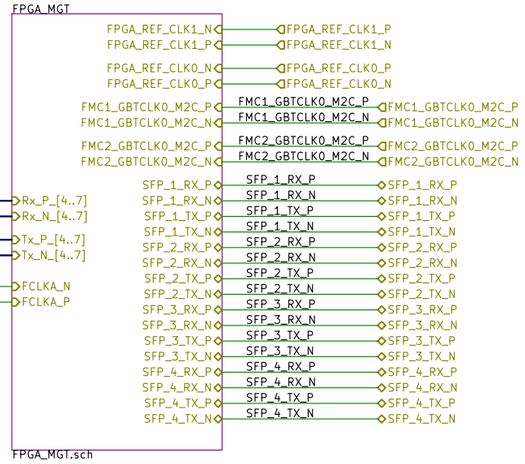
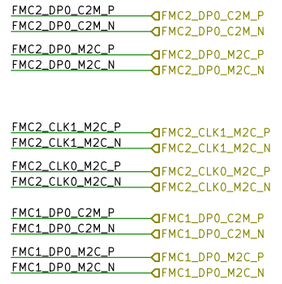
Size: A4 | Date: | **Rev:**

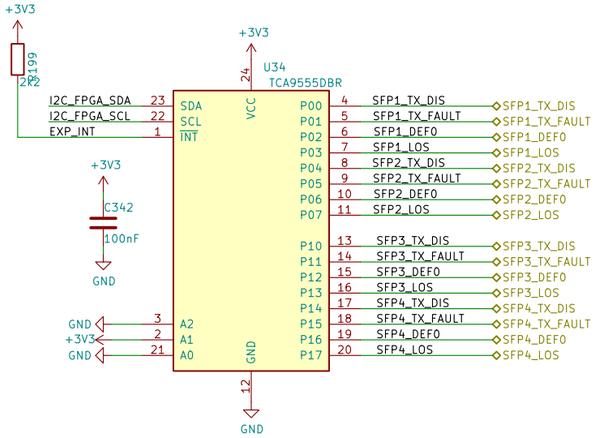
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69) | Id: 18/25











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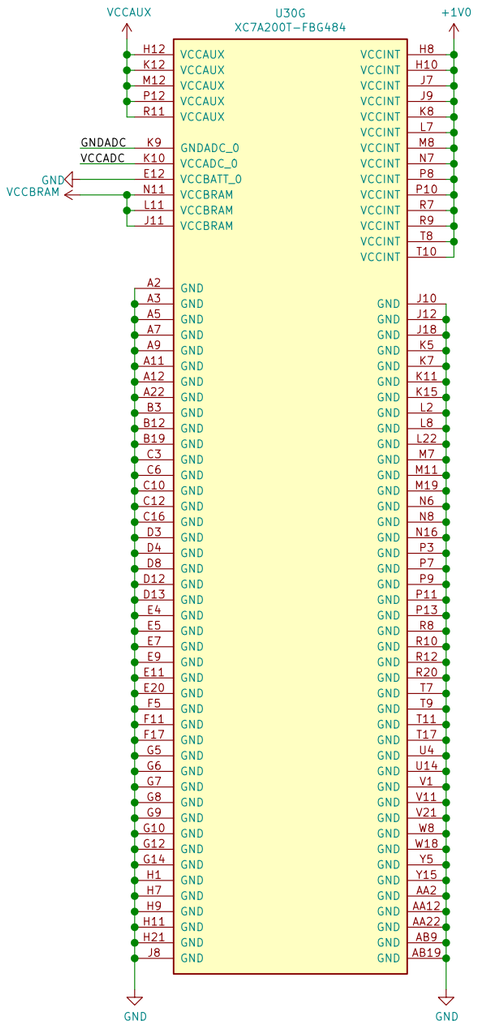
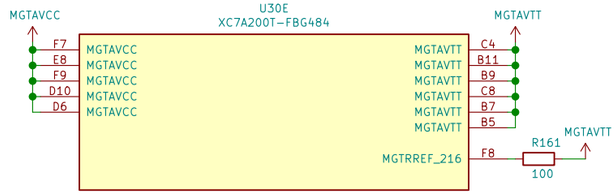
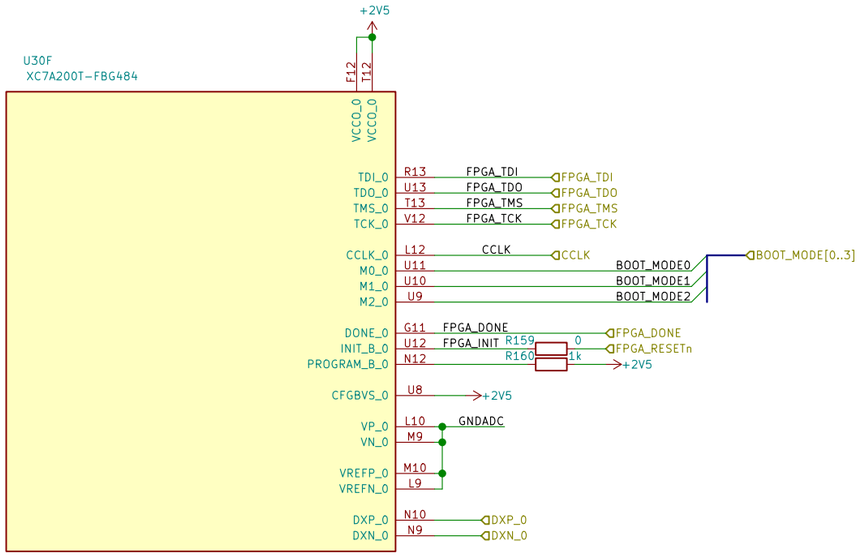
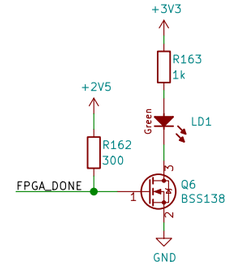
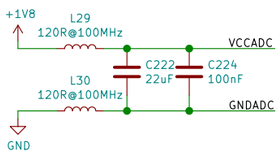
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69)		Id: 19/25

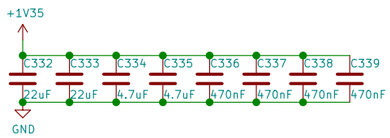


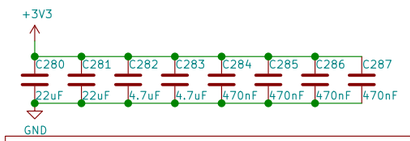


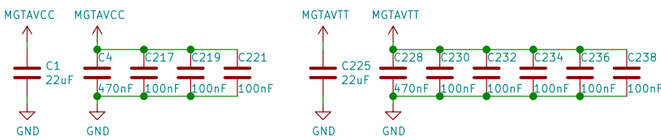


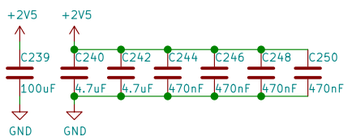


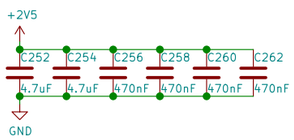


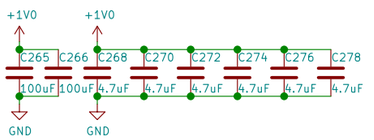


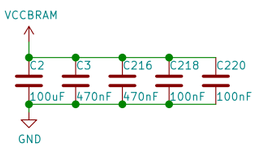


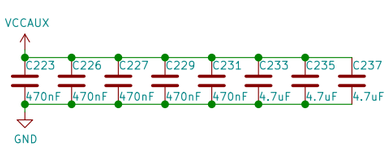


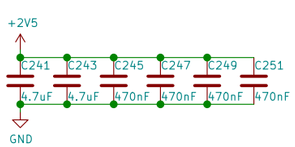


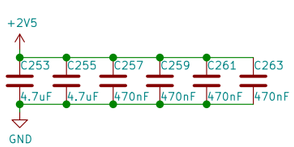


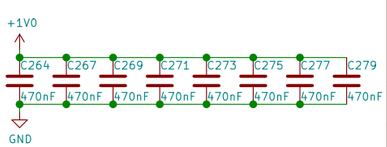












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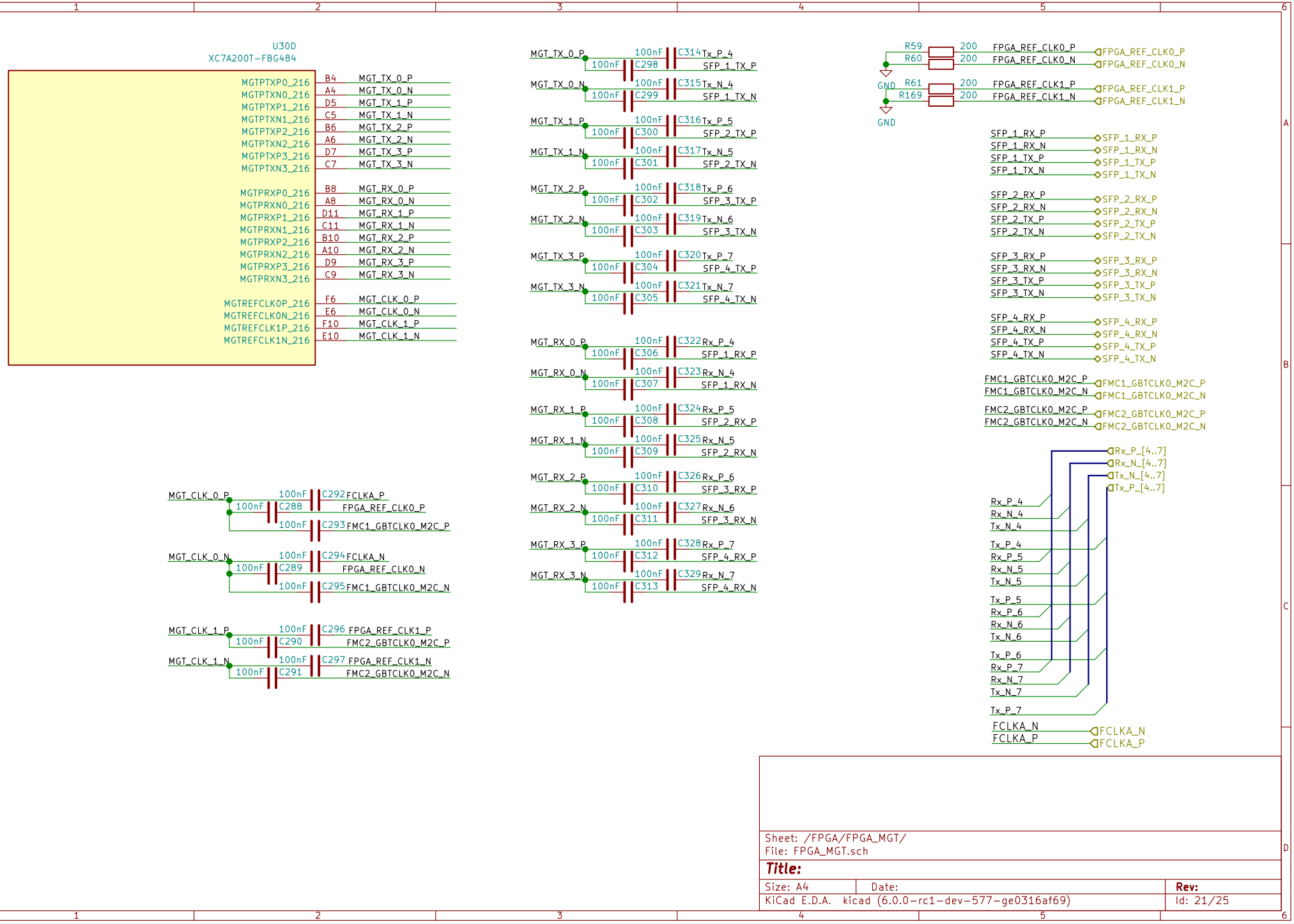
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69)		Id: 20/25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MGTPTXN1_216 C5 MGT_TX_1_N
MGTPTXP2_216 B6 MGT_TX_2_P
MGTPTXN2_216 A6 MGT_TX_2_N
MGTPTXP3_216 D7 MGT_TX_3_P
MGTPTXN3_216 C7 MGT_TX_3_N
MGTPRXP0_216 B8 MGT_RX_0_P
MGTPRXN0_216 A8 MGT_RX_0_N
MGTPRXP1_216 D11 MGT_RX_1_P
MGTPRXN1_216 C11 MGT_RX_1_N
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MGTPRXP3_216 D9 MGT_RX_3_P
MGTPRXN3_216 C9 MGT_RX_3_N
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MGTREFCLK0N_216 E6 MGT_CLK_0_N
MGTREFCLK1P_216 F10 MGT_CLK_1_P
MGTREFCLK1N_216 E10 MGT_CLK_1_N
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MGT_TX_0_N 100nF C315 Tx_N_4 SFP_1_TX_N
MGT_TX_1_P 100nF C316 Tx_P_5 SFP_2_TX_P
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100nF C290 FMC2_GBTCLK0_M2C_P
MGT_CLK_1_N 100nF C297 FPGA_REF_CLK1_N
100nF C291 FMC2_GBTCLK0_M2C_N
R59 200 FPGA_REF_CLK0_P
R60 200 FPGA_REF_CLK0_N
GND
R61 200 FPGA_REF_CLK1_P
R169 200 FPGA_REF_CLK1_N
GND
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SFP_1_RX_N
SFP_1_TX_P
SFP_1_TX_N
SFP_2_RX_P
SFP_2_RX_N
SFP_2_TX_P
SFP_2_TX_N
SFP_3_RX_P
SFP_3_RX_N
SFP_3_TX_P
SFP_3_TX_N
SFP_4_RX_P
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SFP_4_TX_P
SFP_4_TX_N
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FMC1_GBTCLK0_M2C_N
FMC2_GBTCLK0_M2C_P
FMC2_GBTCLK0_M2C_N
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Rx_N_[4..7]
Tx_N_[4..7]
Tx_P_[4..7]
Rx_P_4
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Tx_N_4
Tx_P_4
Rx_P_5
Rx_N_5
Tx_N_5
Tx_P_5
Rx_P_6
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Rx_N_7
Tx_N_7
Tx_P_7
FCLKA_N
FCLKA_P
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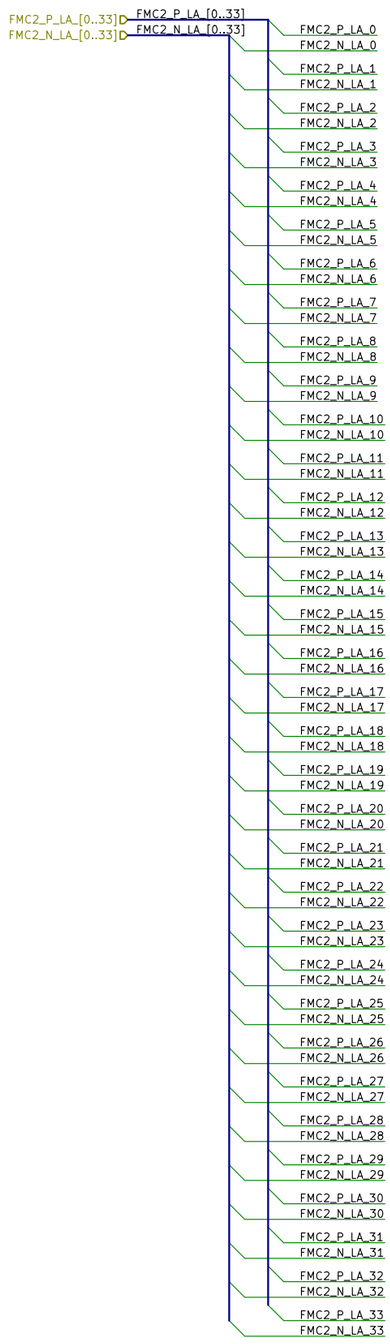
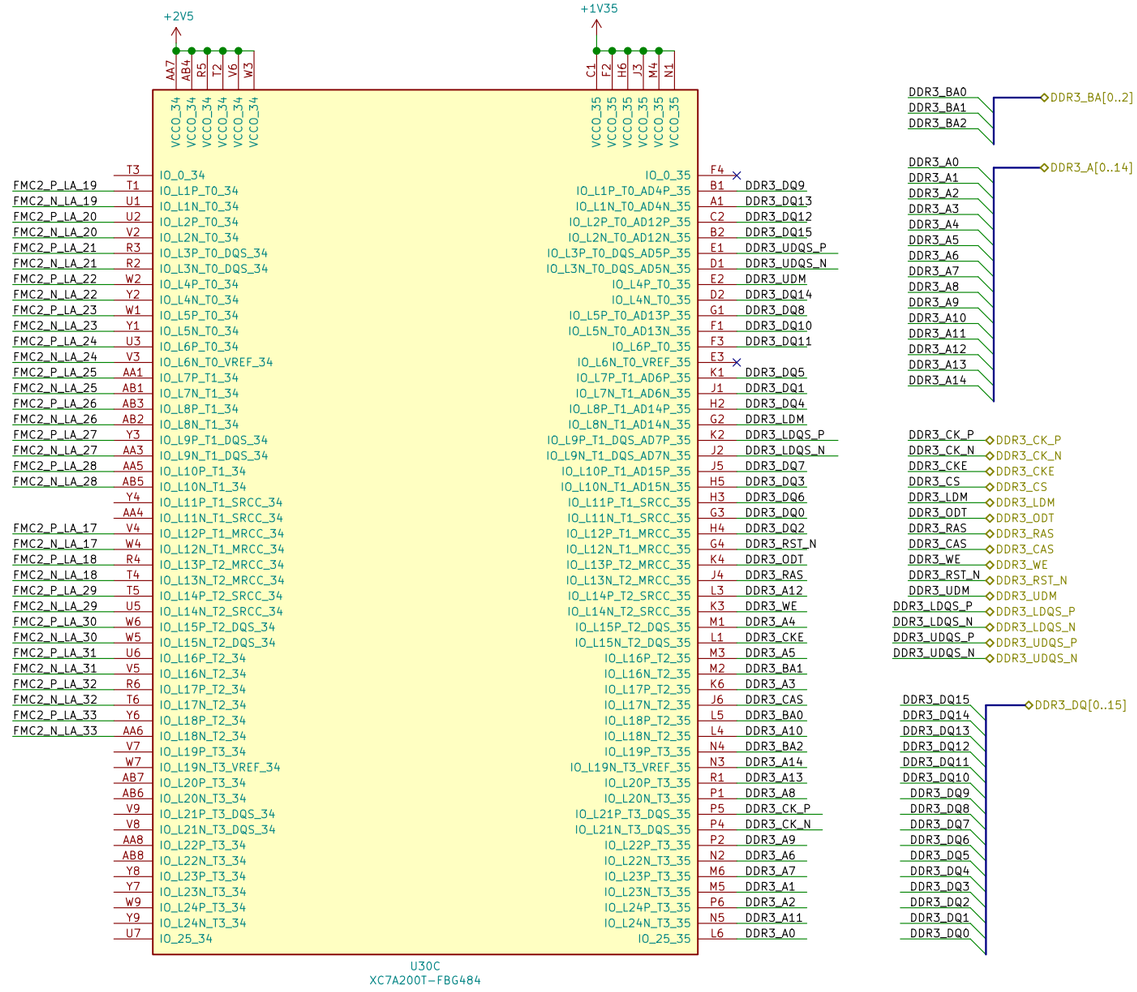
Date:
Rev:
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69)
Id: 21/25





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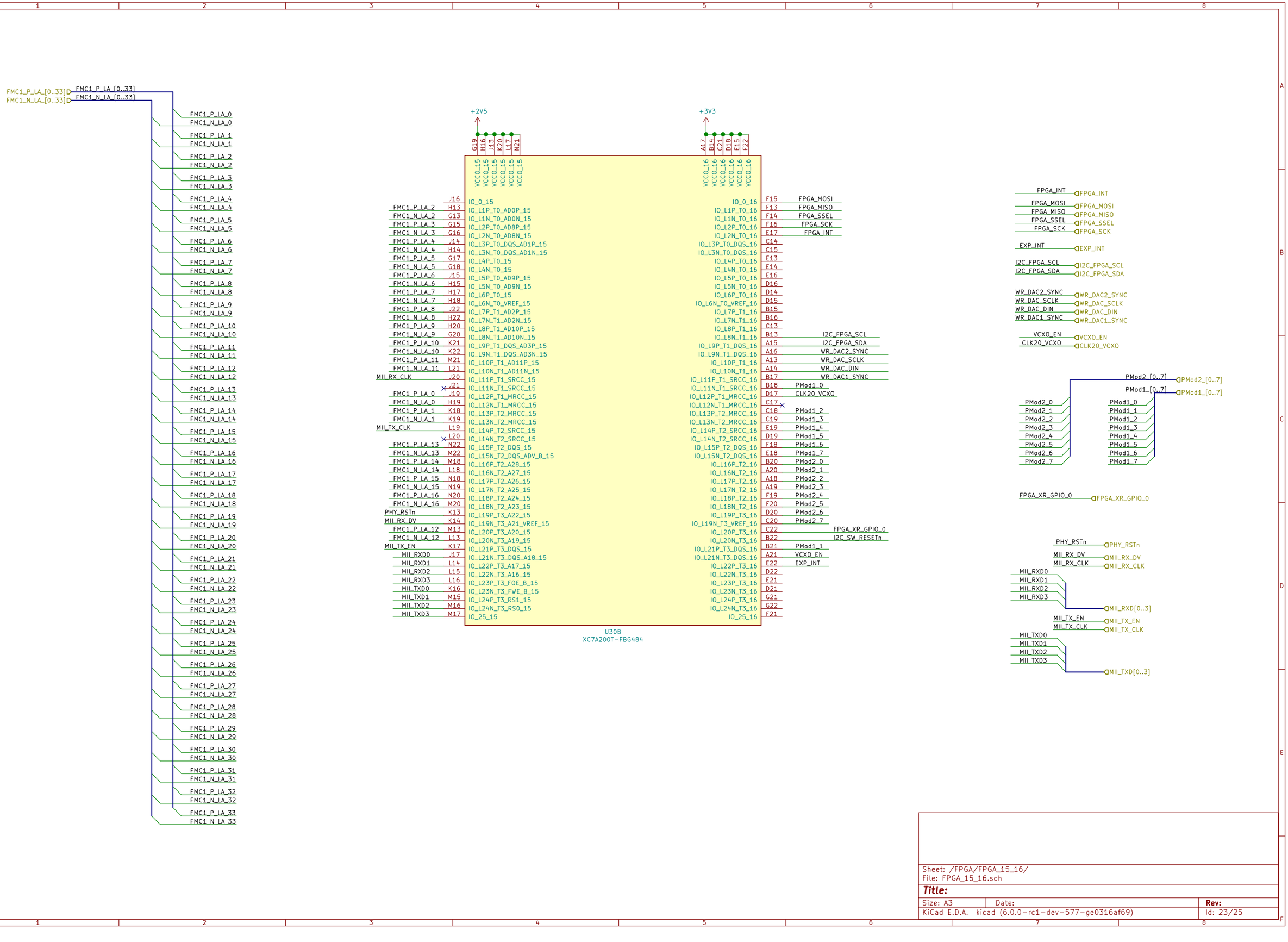

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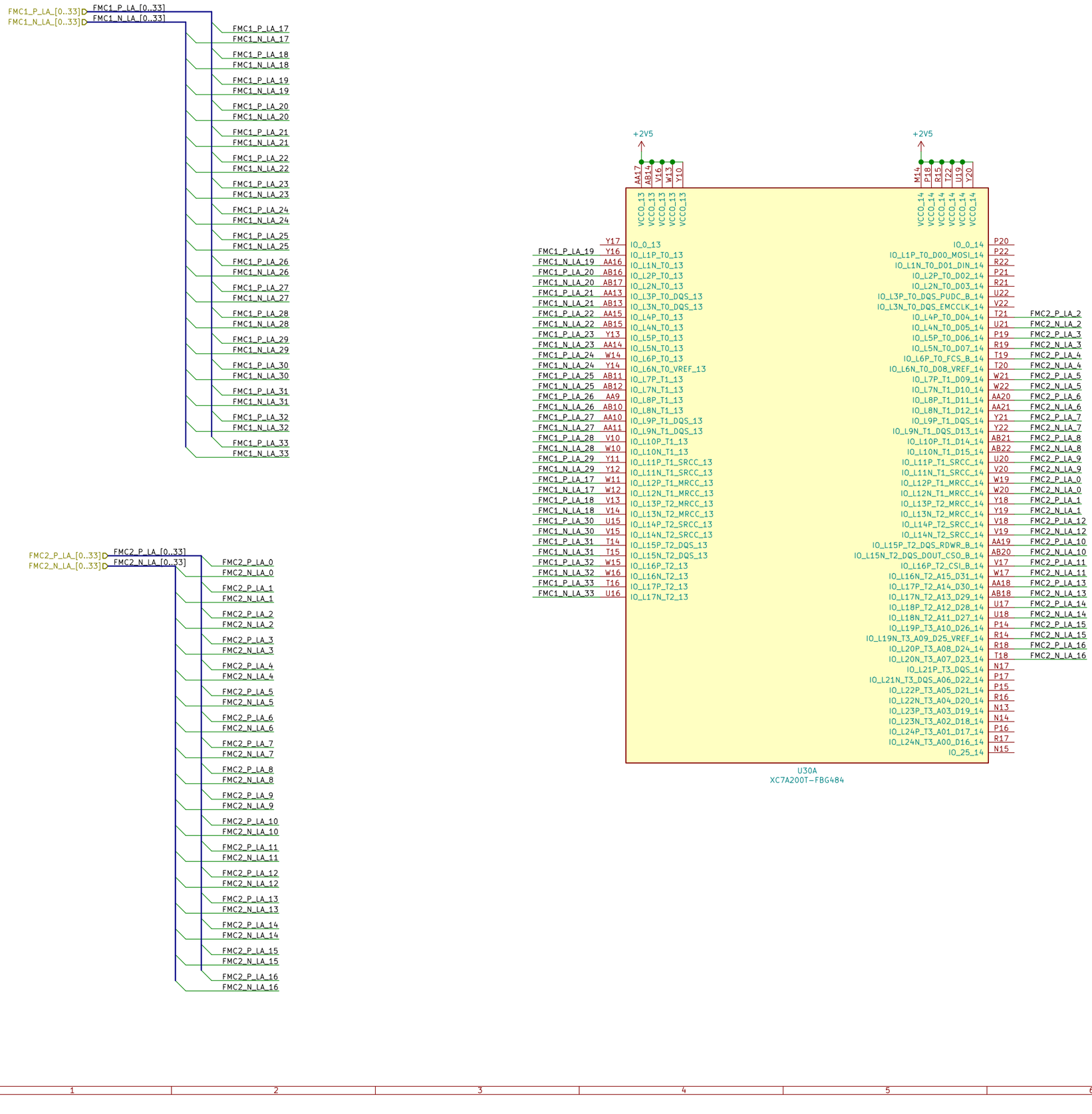
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69)		Id: 23/25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FMC1_N_LA [0..33]
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FMC1_N_LA_17
FMC1_P_LA_18
FMC1_N_LA_18
FMC1_P_LA_19
FMC1_N_LA_19
FMC1_P_LA_20
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FMC1_P_LA_30
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FMC1_P_LA_32
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FMC1_P_LA_33
FMC1_N_LA_33
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FMC2_N_LA_[0..33]
FMC2_P_LA [0..33]
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FMC2_N_LA_15
FMC2_P_LA_16
FMC2_N_LA_16
+2V5
+2V5
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AB14
V16
W13
Y10
M14
P18
R15
T22
U19
Y20
VCCO_13
VCCO_14
Y17 IO_0_13
FMC1_P_LA_19 Y16 IO_L1P_T0_13
FMC1_N_LA_19 AA16 IO_L1N_T0_13
FMC1_P_LA_20 AB16 IO_L2P_T0_13
FMC1_N_LA_20 AB17 IO_L2N_T0_13
FMC1_P_LA_21 AA13 IO_L3P_T0_DQS_13
FMC1_N_LA_21 AB13 IO_L3N_T0_DQS_13
FMC1_P_LA_22 AA15 IO_L4P_T0_13
FMC1_N_LA_22 AB15 IO_L4N_T0_13
FMC1_P_LA_23 Y13 IO_L5P_T0_13
FMC1_N_LA_23 AA14 IO_L5N_T0_13
FMC1_P_LA_24 W14 IO_L6P_T0_13
FMC1_N_LA_24 Y14 IO_L6N_T0_VREF_13
FMC1_P_LA_25 AB11 IO_L7P_T1_13
FMC1_N_LA_25 AB12 IO_L7N_T1_13
FMC1_P_LA_26 AA9 IO_L8P_T1_13
FMC1_N_LA_26 AB10 IO_L8N_T1_13
FMC1_P_LA_27 AA10 IO_L9P_T1_DQS_13
FMC1_N_LA_27 AA11 IO_L9N_T1_DQS_13
FMC1_P_LA_28 V10 IO_L10P_T1_13
FMC1_N_LA_28 W10 IO_L10N_T1_13
FMC1_P_LA_29 Y11 IO_L11P_T1_SRCC_13
FMC1_N_LA_29 Y12 IO_L11N_T1_SRCC_13
FMC1_P_LA_17 W11 IO_L12P_T1_MRCC_13
FMC1_N_LA_17 W12 IO_L12N_T1_MRCC_13
FMC1_P_LA_18 V13 IO_L13P_T2_MRCC_13
FMC1_N_LA_18 V14 IO_L13N_T2_MRCC_13
FMC1_P_LA_30 U15 IO_L14P_T2_SRCC_13
FMC1_N_LA_30 V15 IO_L14N_T2_SRCC_13
FMC1_P_LA_31 T14 IO_L15P_T2_DQS_13
FMC1_N_LA_31 T15 IO_L15N_T2_DQS_13
FMC1_P_LA_32 W15 IO_L16P_T2_13
FMC1_N_LA_32 W16 IO_L16N_T2_13
FMC1_P_LA_33 T16 IO_L17P_T2_13
FMC1_N_LA_33 U16 IO_L17N_T2_13
IO_0_14 P20
IO_L1P_T0_D00_MOSI_14 P22
IO_L1N_T0_D01_DIN_14 R22
IO_L2P_T0_D02_14 P21
IO_L2N_T0_D03_14 R21
IO_L3P_T0_DQS_PUDC_B_14 U22
IO_L3N_T0_DQS_EMCCLK_14 V22
IO_L4P_T0_D04_14 T21 FMC2_P_LA_2
IO_L4N_T0_D05_14 U21 FMC2_N_LA_2
IO_L5P_T0_D06_14 P19 FMC2_P_LA_3
IO_L5N_T0_D07_14 R19 FMC2_N_LA_3
IO_L6P_T0_FCS_B_14 T19 FMC2_P_LA_4
IO_L6N_T0_D08_VREF_14 T20 FMC2_N_LA_4
IO_L7P_T1_D09_14 W21 FMC2_P_LA_5
IO_L7N_T1_D10_14 W22 FMC2_N_LA_5
IO_L8P_T1_D11_14 AA20 FMC2_P_LA_6
IO_L8N_T1_D12_14 AA21 FMC2_N_LA_6
IO_L9P_T1_DQS_14 Y21 FMC2_P_LA_7
IO_L9N_T1_DQS_D13_14 Y22 FMC2_N_LA_7
IO_L10P_T1_D14_14 AB21 FMC2_P_LA_8
IO_L10N_T1_D15_14 AB22 FMC2_N_LA_8
IO_L11P_T1_SRCC_14 U20 FMC2_P_LA_9
IO_L11N_T1_SRCC_14 V20 FMC2_N_LA_9
IO_L12P_T1_MRCC_14 W19 FMC2_P_LA_0
IO_L12N_T1_MRCC_14 W20 FMC2_N_LA_0
IO_L13P_T2_MRCC_14 Y18 FMC2_P_LA_1
IO_L13N_T2_MRCC_14 Y19 FMC2_N_LA_1
IO_L14P_T2_SRCC_14 V18 FMC2_P_LA_12
IO_L14N_T2_SRCC_14 V19 FMC2_N_LA_12
IO_L15P_T2_DQS_RDWR_B_14 AA19 FMC2_P_LA_10
IO_L15N_T2_DQS_DOUT_CSO_B_14 AB20 FMC2_N_LA_10
IO_L16P_T2_CSI_B_14 V17 FMC2_P_LA_11
IO_L16N_T2_A15_D31_14 W17 FMC2_N_LA_11
IO_L17P_T2_A14_D30_14 AA18 FMC2_P_LA_13
IO_L17N_T2_A13_D29_14 AB18 FMC2_N_LA_13
IO_L18P_T2_A12_D28_14 U17 FMC2_P_LA_14
IO_L18N_T2_A11_D27_14 U18 FMC2_N_LA_14
IO_L19P_T3_A10_D26_14 P14 FMC2_P_LA_15
IO_L19N_T3_A09_D25_VREF_14 R14 FMC2_N_LA_15
IO_L20P_T3_A08_D24_14 R18 FMC2_P_LA_16
IO_L20N_T3_A07_D23_14 T18 FMC2_N_LA_16
IO_L21P_T3_DQS_14 N17
IO_L21N_T3_DQS_A06_D22_14 P17
IO_L22P_T3_A05_D21_14 P15
IO_L22N_T3_A04_D20_14 R16
IO_L23P_T3_A03_D19_14 N13
IO_L23N_T3_A02_D18_14 N14
IO_L24P_T3_A01_D17_14 P16
IO_L24N_T3_A00_D16_14 R17
IO_25_14 N15
U30A
XC7A200T-FBG484
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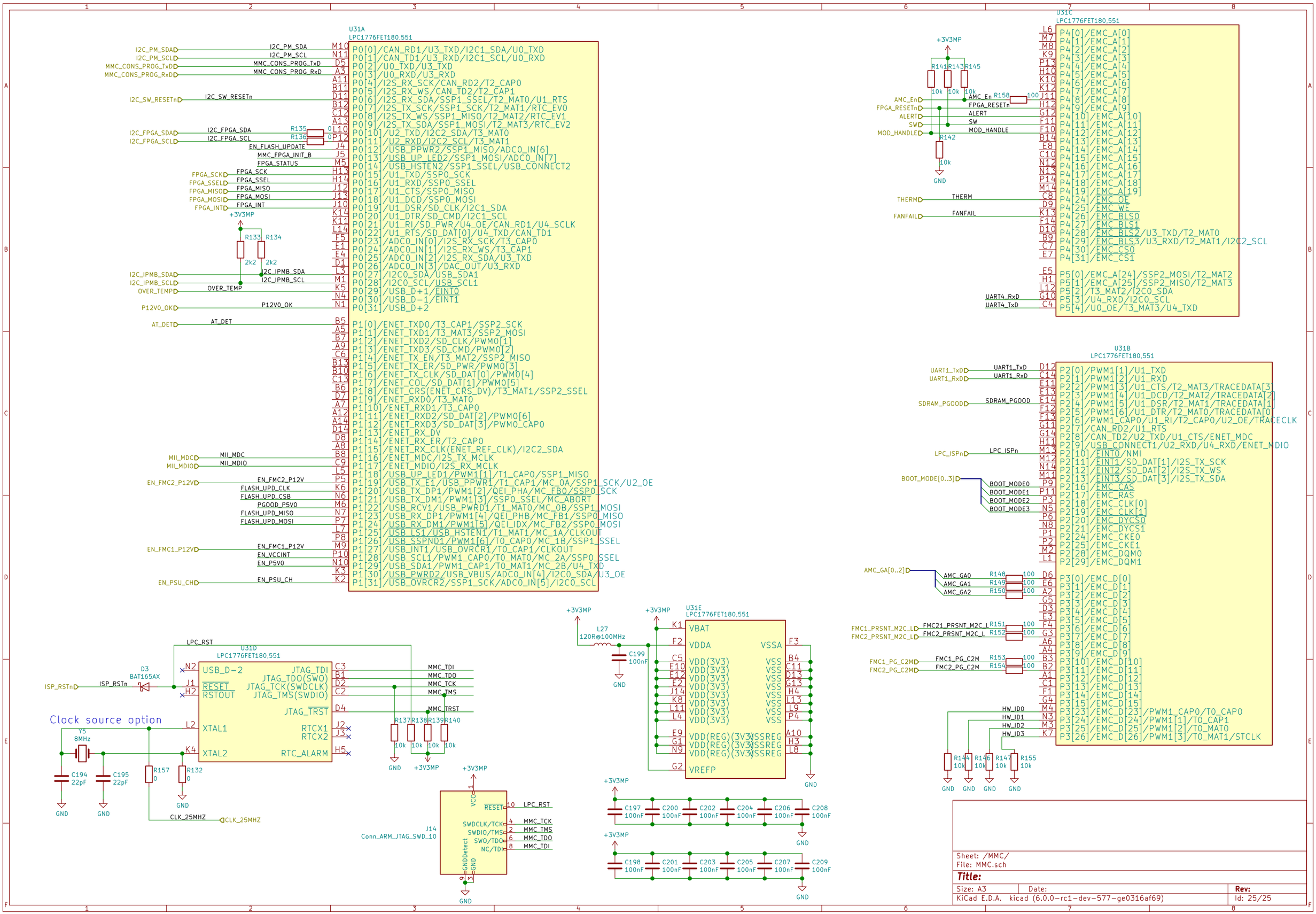
Date:
Rev:
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69)
Id: 24/25


U31A
LPC1776FET180,551
P0[0]/CAN_RD1/U3_TXD/I2C1_SDA/U0_TXD
P0[1]/CAN_TD1/U3_RXD/I2C1_SCL/U0_RXD
P0[2]/U0_TXD/U3_TXD
P0[3]/U0_RXD/U3_RXD
P0[4]/I2S_RX_SCK/CAN_RD2/T2_CAP0
P0[5]/I2S_RX_WS/CAN_TD2/T2_CAP1
P0[6]/I2S_RX_SDA/SSP1_SSEL/T2_MAT0/U1_RTS
P0[7]/I2S_TX_SCK/SSP1_SCK/T2_MAT1/RTC_EV0
P0[8]/I2S_TX_WS/SSP1_MISO/T2_MAT2/RTC_EV1
P0[9]/I2S_TX_SDA/SSP1_MOSI/T2_MAT3/RTC_EV2
P0[10]/U2_TXD/I2C2_SDA/T3_MAT0
P0[11]/U2_RXD/I2C2_SCL/T3_MAT1
P0[12]/USB_PPWR2/SSP1_MISO/ADC0_IN[6]
P0[13]/USB_UP_LED2/SSP1_MOSI/ADC0_IN[7]
P0[14]/USB_HSTEN2/SSP1_SSEL/USB_CONNECT2
P0[15]/U1_TXD/SSP0_SCK
P0[16]/U1_RXD/SSP0_SSEL
P0[17]/U1_CTS/SSP0_MISO
P0[18]/U1_DCD/SSP0_MOSI
P0[19]/U1_DSR/SD_CLK/I2C1_SDA
P0[20]/U1_DTR/SD_CMD/I2C1_SCL
P0[21]/U1_RI/SD_PWR/U4_OE/CAN_RD1/U4_SCLK
P0[22]/U1_RTS/SD_DAT[0]/U4_TXD/CAN_TD1
P0[23]/ADC0_IN[0]/I2S_RX_SCK/T3_CAP0
P0[24]/ADC0_IN[1]/I2S_RX_WS/T3_CAP1
P0[25]/ADC0_IN[2]/I2S_RX_SDA/U3_TXD
P0[26]/ADC0_IN[3]/DAC_OUT/U3_RXD
P0[27]/I2C0_SDA/USB_SDA1
P0[28]/I2C0_SCL/USB_SCL1
P0[29]/USB_D+1/EINT0
P0[30]/USB_D-1/EINT1
P0[31]/USB_D+2
P1[0]/ENET_TXD0/T3_CAP1/SSP2_SCK
P1[1]/ENET_TXD1/T3_MAT3/SSP2_MOSI
P1[2]/ENET_TXD2/SD_CLK/PWM0[1]
P1[3]/ENET_TXD3/SD_CMD/PWM0[2]
P1[4]/ENET_TX_EN/T3_MAT2/SSP2_MISO
P1[5]/ENET_TX_ER/SD_PWR/PWM0[3]
P1[6]/ENET_TX_CLK/SD_DAT[0]/PWM0[4]
P1[7]/ENET_COL/SD_DAT[1]/PWM0[5]
P1[8]/ENET_CRS(ENET_CRS_DV)/T3_MAT1/SSP2_SSEL
P1[9]/ENET_RXD0/T3_MAT0
P1[10]/ENET_RXD1/T3_CAP0
P1[11]/ENET_RXD2/SD_DAT[2]/PWM0[6]
P1[12]/ENET_RXD3/SD_DAT[3]/PWM0_CAP0
P1[13]/ENET_RX_DV
P1[14]/ENET_RX_ER/T2_CAP0
P1[15]/ENET_RX_CLK(ENET_REF_CLK)/I2C2_SDA
P1[16]/ENET_MDC/I2S_TX_MCLK
P1[17]/ENET_MDIO/I2S_RX_MCLK
P1[18]/USB_UP_LED1/PWM1[1]/T1_CAP0/SSP1_MISO
P1[19]/USB_TX_E1/USB_PPWR1/T1_CAP1/MC_0A/SSP1_SCK/U2_OE
P1[20]/USB_TX_DP1/PWM1[2]/QEI_PHA/MC_FB0/SSP0_SCK
P1[21]/USB_TX_DM1/PWM1[3]/SSP0_SSEL/MC_ABORT
P1[22]/USB_RCV1/USB_PWRD1/T1_MAT0/MC_0B/SSP1_MOSI
P1[23]/USB_RX_DP1/PWM1[4]/QEI_PHB/MC_FB1/SSP0_MISO
P1[24]/USB_RX_DM1/PWM1[5]/QEI_IDX/MC_FB2/SSP0_MOSI
P1[25]/USB_LS1/USB_HSTEN1/T1_MAT1/MC_1A/CLKOUT
P1[26]/USB_SSPND1/PWM1[6]/T0_CAP0/MC_1B/SSP1_SSEL
P1[27]/USB_INT1/USB_OVRCR1/T0_CAP1/CLKOUT
P1[28]/USB_SCL1/PWM1_CAP0/T0_MAT0/MC_2A/SSP0_SSEL
P1[29]/USB_SDA1/PWM1_CAP1/T0_MAT1/MC_2B/U4_TXD
P1[30]/USB_PWRD2/USB_VBUS/ADC0_IN[4]/I2C0_SDA/U3_OE
P1[31]/USB_OVRCR2/SSP1_SCK/ADC0_IN[5]/I2C0_SCL
I2C_PM_SDA
I2C_PM_SCL
MMC_CONS_PROG_TxD
MMC_CONS_PROG_RxD
I2C_SW_RESETn
I2C_FPGA_SDA
I2C_FPGA_SCL
R135
R136
EN_FLASH_UPDATE
MMC_FPGA_INIT_B
FPGA_STATUS
FPGA_SCK
FPGA_SSEL
FPGA_MISO
FPGA_MOSI
FPGA_INT
+3V3MP
R133
R134
2k2
I2C_IPMB_SDA
I2C_IPMB_SCL
OVER_TEMP
P12V0_OK
AT_DET
MII_MDC
MII_MDIO
EN_FMC2_P12V
FLASH_UPD_CLK
FLASH_UPD_CSB
PGOOD_P5V0
FLASH_UPD_MISO
FLASH_UPD_MOSI
EN_FMC1_P12V
EN_VCCINT
EN_P5V0
EN_PSU_CH
U31C
LPC1776FET180,551
P4[0]/EMC_A[0]
P4[1]/EMC_A[1]
P4[2]/EMC_A[2]
P4[3]/EMC_A[3]
P4[4]/EMC_A[4]
P4[5]/EMC_A[5]
P4[6]/EMC_A[6]
P4[7]/EMC_A[7]
P4[8]/EMC_A[8]
P4[9]/EMC_A[9]
P4[10]/EMC_A[10]
P4[11]/EMC_A[11]
P4[12]/EMC_A[12]
P4[13]/EMC_A[13]
P4[14]/EMC_A[14]
P4[15]/EMC_A[15]
P4[16]/EMC_A[16]
P4[17]/EMC_A[17]
P4[18]/EMC_A[18]
P4[19]/EMC_A[19]
P4[24]/EMC_OE
P4[25]/EMC_WE
P4[26]/EMC_BLS0
P4[27]/EMC_BLS1
P4[28]/EMC_BLS2/U3_TXD/T2_MAT0
P4[29]/EMC_BLS3/U3_RXD/T2_MAT1/I2C2_SCL
P4[30]/EMC_CS0
P4[31]/EMC_CS1
P5[0]/EMC_A[24]/SSP2_MOSI/T2_MAT2
P5[1]/EMC_A[25]/SSP2_MISO/T2_MAT3
P5[2]/T3_MAT2/I2C0_SDA
P5[3]/U4_RXD/I2C0_SCL
P5[4]/U0_OE/T3_MAT3/U4_TXD
+3V3MP
R141
R143
R145
10k
AMC_En
FPGA_RESETn
ALERT
SW
MOD_HANDLE
R158
100
R142
GND
THERM
FANFAIL
UART4_RxD
UART4_TxD
U31B
LPC1776FET180,551
P2[0]/PWM1[1]/U1_TXD
P2[1]/PWM1[2]/U1_RXD
P2[2]/PWM1[3]/U1_CTS/T2_MAT3/TRACEDATA[3]
P2[3]/PWM1[4]/U1_DCD/T2_MAT2/TRACEDATA[2]
P2[4]/PWM1[5]/U1_DSR/T2_MAT1/TRACEDATA[1]
P2[5]/PWM1[6]/U1_DTR/T2_MAT0/TRACEDATA[0]
P2[6]/PWM1_CAP0/U1_RI/T2_CAP0/U2_OE/TRACECLK
P2[7]/CAN_RD2/U1_RTS
P2[8]/CAN_TD2/U2_TXD/U1_CTS/ENET_MDC
P2[9]/USB_CONNECT1/U2_RXD/U4_RXD/ENET_MDIO
P2[10]/EINT0/NMI
P2[11]/EINT1/SD_DAT[1]/I2S_TX_SCK
P2[12]/EINT2/SD_DAT[2]/I2S_TX_WS
P2[13]/EINT3/SD_DAT[3]/I2S_TX_SDA
P2[16]/EMC_CAS
P2[17]/EMC_RAS
P2[18]/EMC_CLK[0]
P2[19]/EMC_CLK[1]
P2[20]/EMC_DYCS0
P2[21]/EMC_DYCS1
P2[24]/EMC_CKE0
P2[25]/EMC_CKE1
P2[28]/EMC_DQM0
P2[29]/EMC_DQM1
P3[0]/EMC_D[0]
P3[1]/EMC_D[1]
P3[2]/EMC_D[2]
P3[3]/EMC_D[3]
P3[4]/EMC_D[4]
P3[5]/EMC_D[5]
P3[6]/EMC_D[6]
P3[7]/EMC_D[7]
P3[8]/EMC_D[8]
P3[9]/EMC_D[9]
P3[10]/EMC_D[10]
P3[11]/EMC_D[11]
P3[12]/EMC_D[12]
P3[13]/EMC_D[13]
P3[14]/EMC_D[14]
P3[15]/EMC_D[15]
P3[23]/EMC_D[23]/PWM1_CAP0/T0_CAP0
P3[24]/EMC_D[24]/PWM1[1]/T0_CAP1
P3[25]/EMC_D[25]/PWM1[2]/T0_MAT0
P3[26]/EMC_D[26]/PWM1[3]/T0_MAT1/STCLK
UART1_TxD
UART1_RxD
SDRAM_PGOOD
LPC_ISPn
BOOT_MODE[0..3]
BOOT_MODE0
BOOT_MODE1
BOOT_MODE2
BOOT_MODE3
AMC_GA[0..2]
AMC_GA0
AMC_GA1
AMC_GA2
R148
R149
R150
FMC1_PRSNT_M2C_L
FMC2_PRSNT_M2C_L
FMC21_PRSNT_M2C_L
R151
R152
FMC1_PG_C2M
FMC2_PG_C2M
R153
R154
HW_ID0
HW_ID1
HW_ID2
HW_ID3
R144
R146
R147
R155
U31D
LPC1776FET180,551
USB_D-2
RESET
RSTOUT
XTAL1
XTAL2
JTAG_TDI
JTAG_TDO(SWO)
JTAG_TCK(SWDCLK)
JTAG_TMS(SWDIO)
JTAG_TRST
RTCX1
RTCX2
RTC_ALARM
LPC_RST
D3
BAT165AX
ISP_RSTn
Clock source option
Y5
8MHz
C194
22pF
C195
22pF
R157
0
R132
0
CLK_25MHZ
MMC_TDI
MMC_TDO
MMC_TCK
MMC_TMS
MMC_TRST
R137
R138
R139
R140
10k
J14
Conn_ARM_JTAG_SWD_10
SWDCLK/TCK
SWDIO/TMS
SWO/TDO
NC/TDI
GNDDetect
VCC
RESET
L27
120R@100MHz
C199
100nF
U31E
LPC1776FET180,551
VBAT
VDDA
VSSA
VDD(3V3)
VSS
VDD(REG)(3V3)
VSSREG
VREFP
C197
C200
C202
C204
C206
C208
C198
C201
C203
C205
C207
C209
100nF
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File: MMC.sch
Title:
Size: A3
Date:
Rev:
KiCad E.D.A. kicad (6.0.0-rc1-dev-577-ge0316af69)
Id: 25/25