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3	FMC_CONNECTOR	pc065b_fibv2_toplevel
4	SFP_CONNECTORS	pc065b_fibv2_toplevel
5	SFP_INTERFACES_0:3	pc065b_fibv2_toplevel
6	SFP_INTERFACES_4:7	pc065b_fibv2_toplevel
7	CLOCK	pc065b_fibv2_toplevel
8	I2C LEVEL TRANSLATORS	pc065b_fibv2_toplevel
9	LEVEL TRANSLATORS	pc065b_fibv2_toplevel
10	CONNECTORS	pc065b_fibv2_toplevel
11	EEPROM	pc065b_fibv2_toplevel
12	page1	sfp_module
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20	I2C LEVEL TRANSLATOR	i2c_level_translate
21	I2C LEVEL TRANSLATOR	i2c_level_translate
22	I2C LEVEL TRANSLATOR	i2c_level_translate
23	I2C LEVEL TRANSLATOR	i2c_level_translate
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27	I2C LEVEL TRANSLATOR	i2c_level_translate
28	I2C LEVEL TRANSLATOR	i2c_level_translate
29	AB	fmc_hpc_generic
30	CDGH	fmc_hpc_generic

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SHEET NO.	SHEET NAME	BLOCK NAME
31	EFJK	fmc_hpc_generic

I2C ADDRESSES
EEPROM 0X50 (ALTERNATIVE: 0X51)
CDR 0X60 (ALTERNATIVE: 0X40)
CLOCK 0X68 (0X69, 0X6A, 0X6B)
EXPANDER 0X74
EXPANDER 0X75

PROJECT: pc065b_fibv2_toplevel

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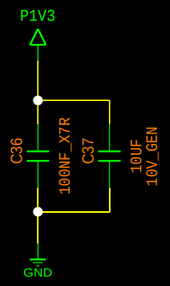
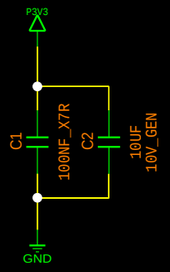
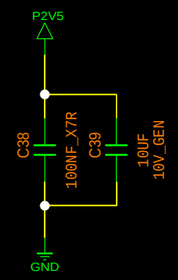


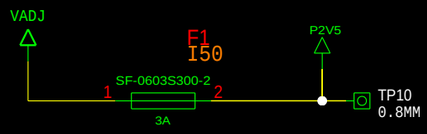


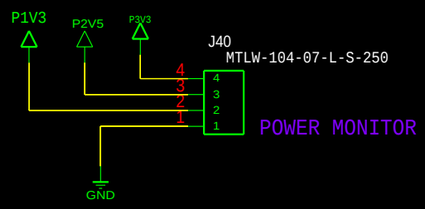


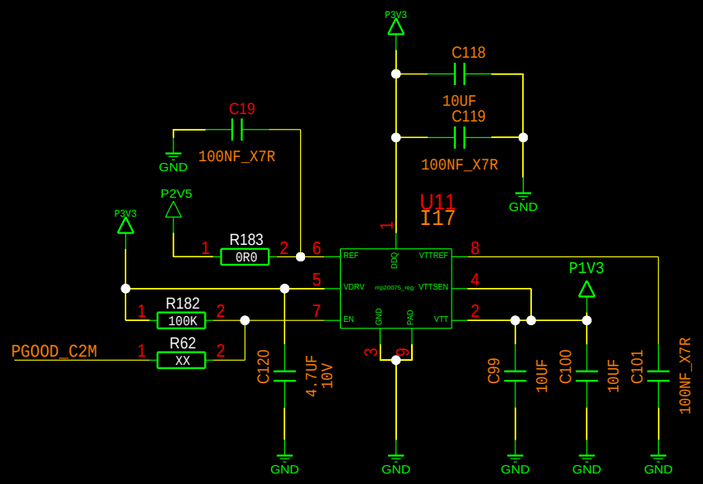
USE 2V5 OR VADJ FOR TRANSLATORS?

FOR NOW PLACE A JUMPER+TP TO ALLOW
CONNECTING VADJ TO P2V5 OR USING
EXTERNAL WIRE

MAX CURRENTS PER RAILS
P3V3: 3 A
P12V: 1A
VADJ: 4 A







PROJECT:	pc065b_fibv2_toplevel		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED:	14/05/2020
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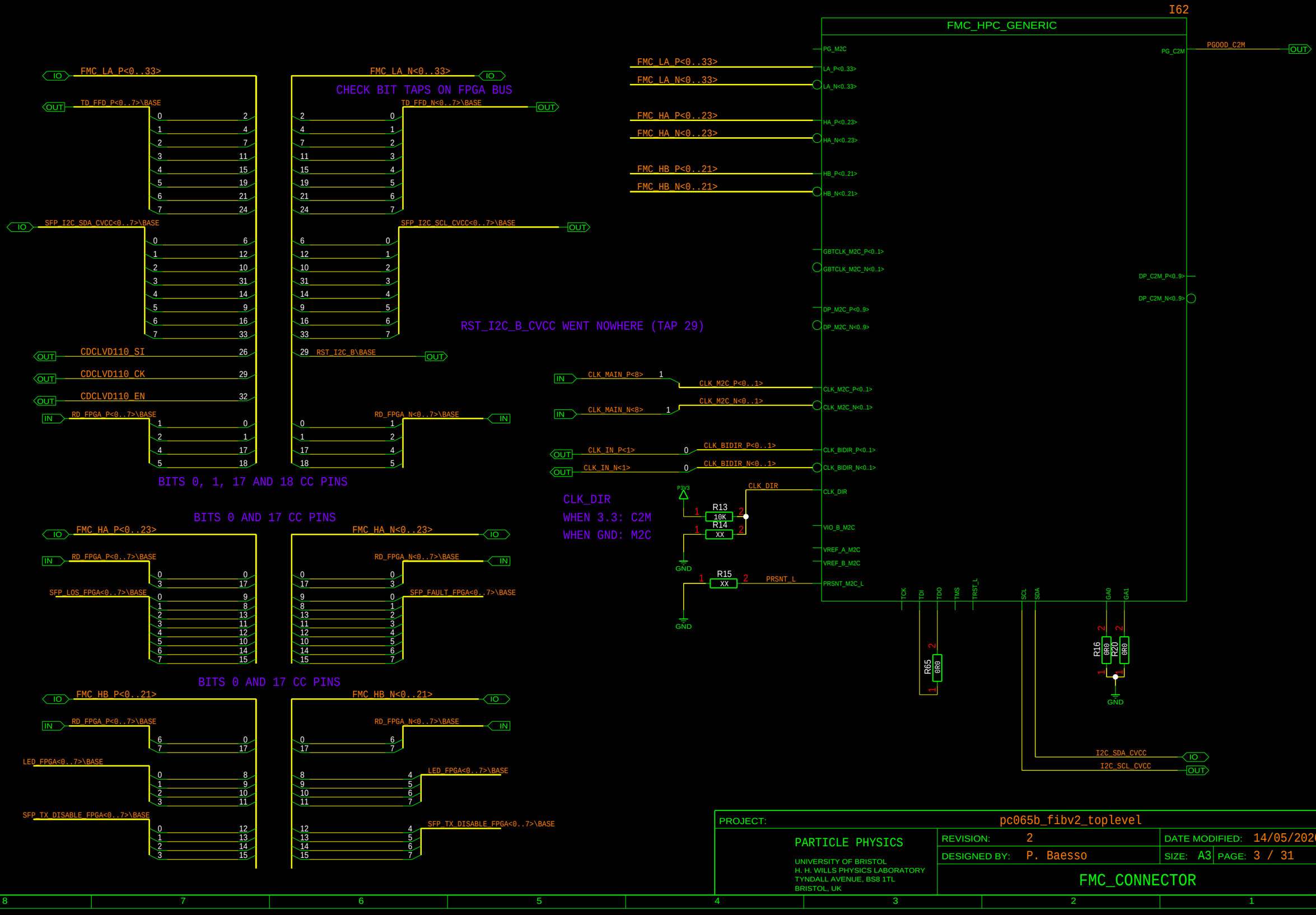
	POWER		



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PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	
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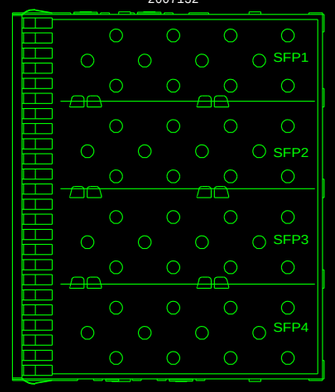
FMC_CONNECTOR	

1X4 SFP+ CAGE

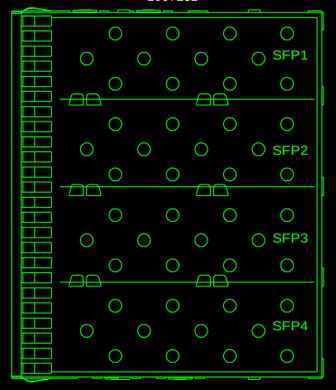
USE 2110069-1 FOR LIGHTPIPES

USE 2007132-1 FOR NO LIGHTGUIDES

SFP1
2007132



SFP2
2007132



PROJECT: pc065b_fibv2_toplevel

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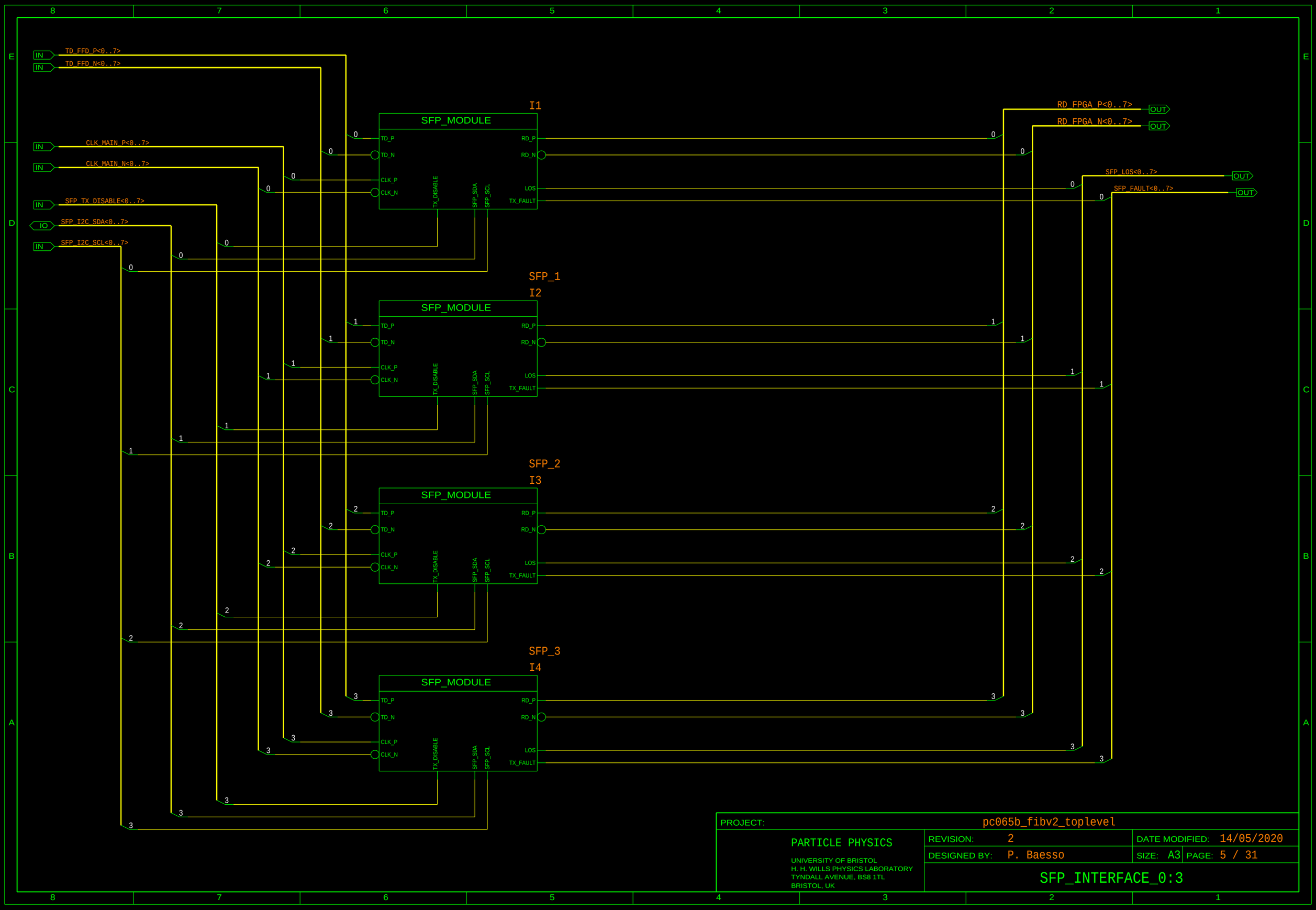
SFP_CONNECTORS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SFP_I2C_SCL<0..7>
I1
SFP_1
I2
SFP_2
I3
SFP_3
I4
SFP_MODULE
TD_P
TD_N
CLK_P
CLK_N
TX_DISABLE
SFP_SDA
SFP_SCL
RD_P
RD_N
LOS
TX_FAULT
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RD_FPGA_N<0..7>
SFP_LOS<0..7>
SFP_FAULT<0..7>
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pc065b_fibv2_toplevel
PARTICLE PHYSICS
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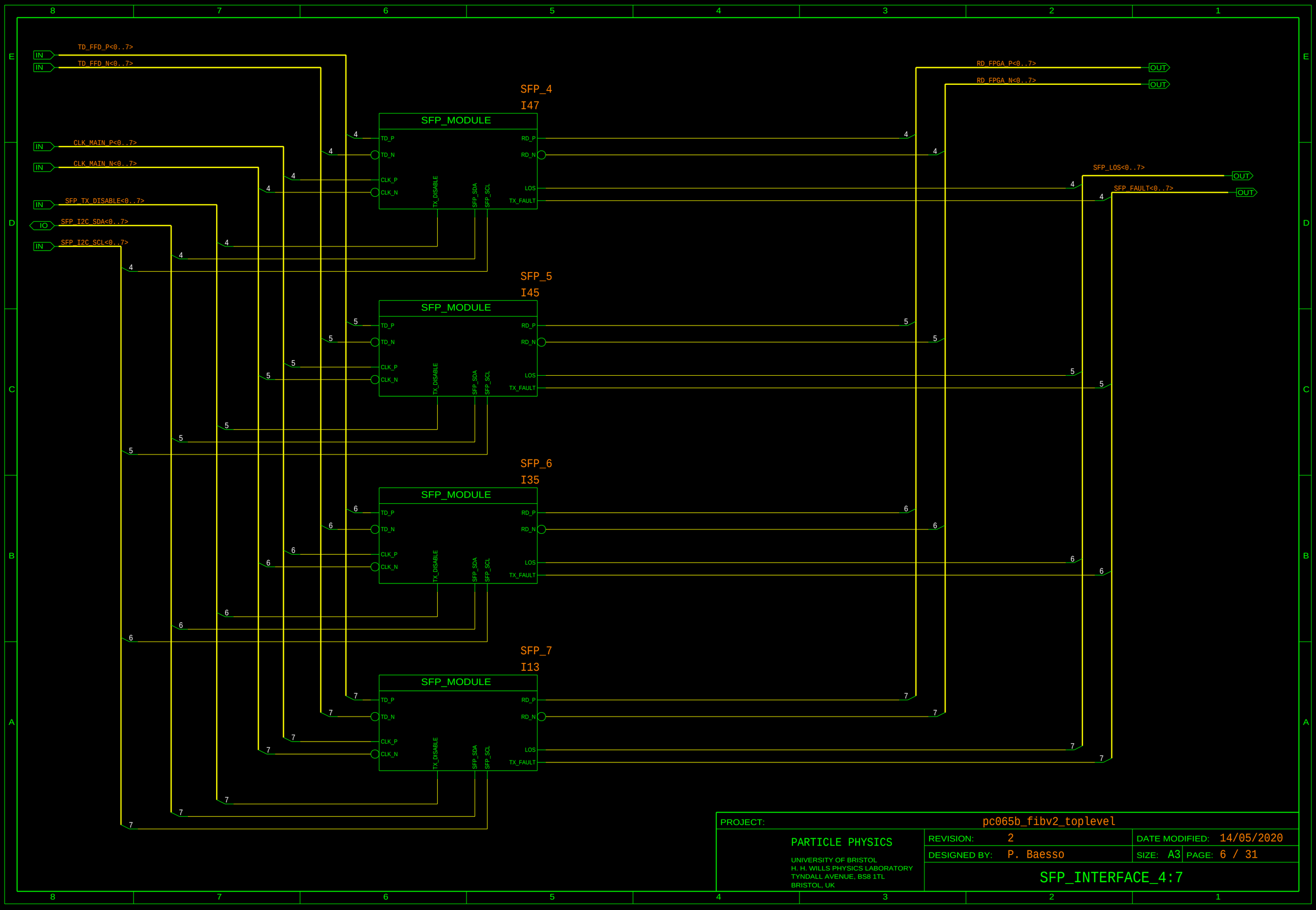
SFP_INTERFACE_0:3



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PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
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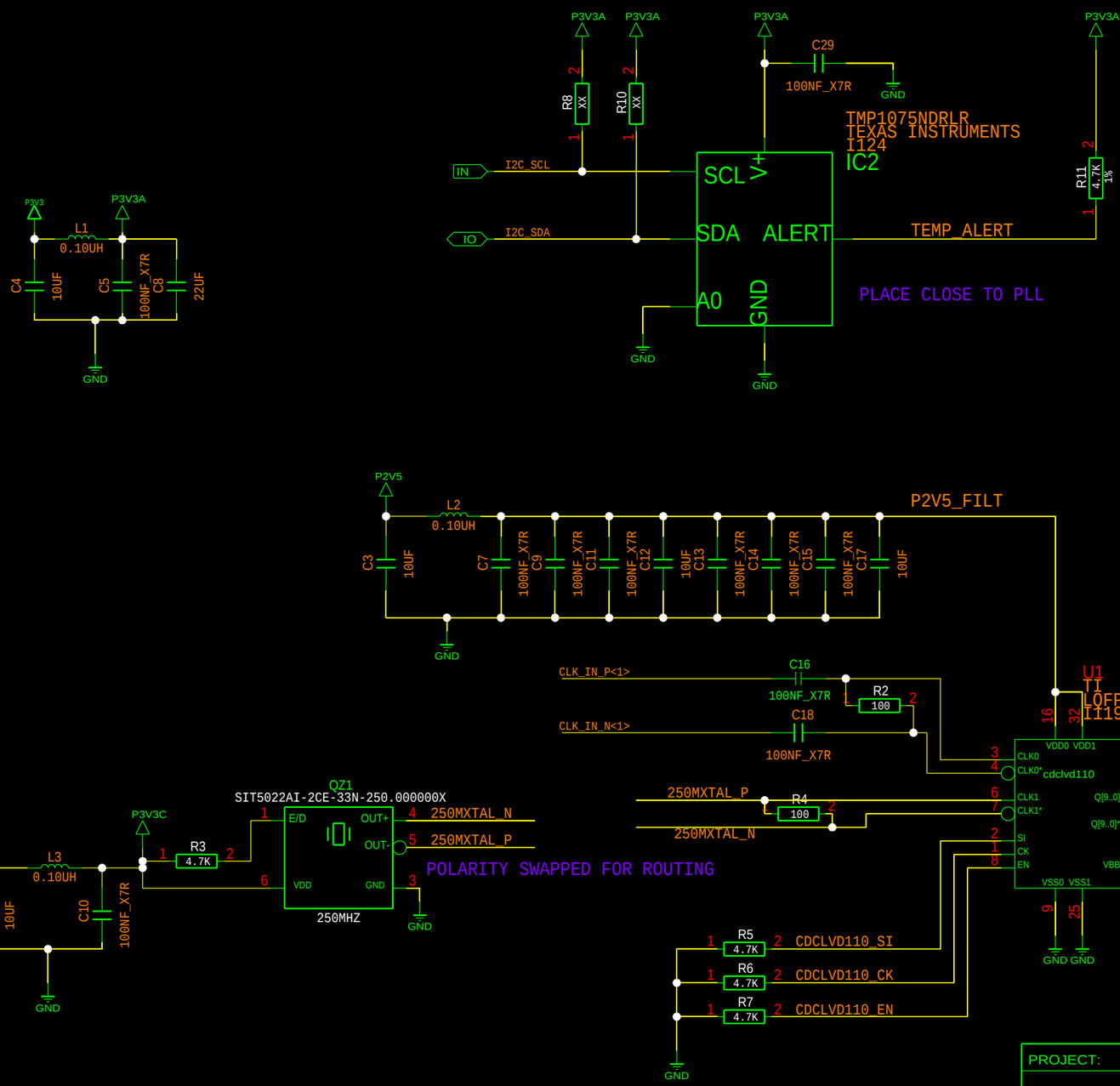
	SFP_INTERFACE_4:7		



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PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
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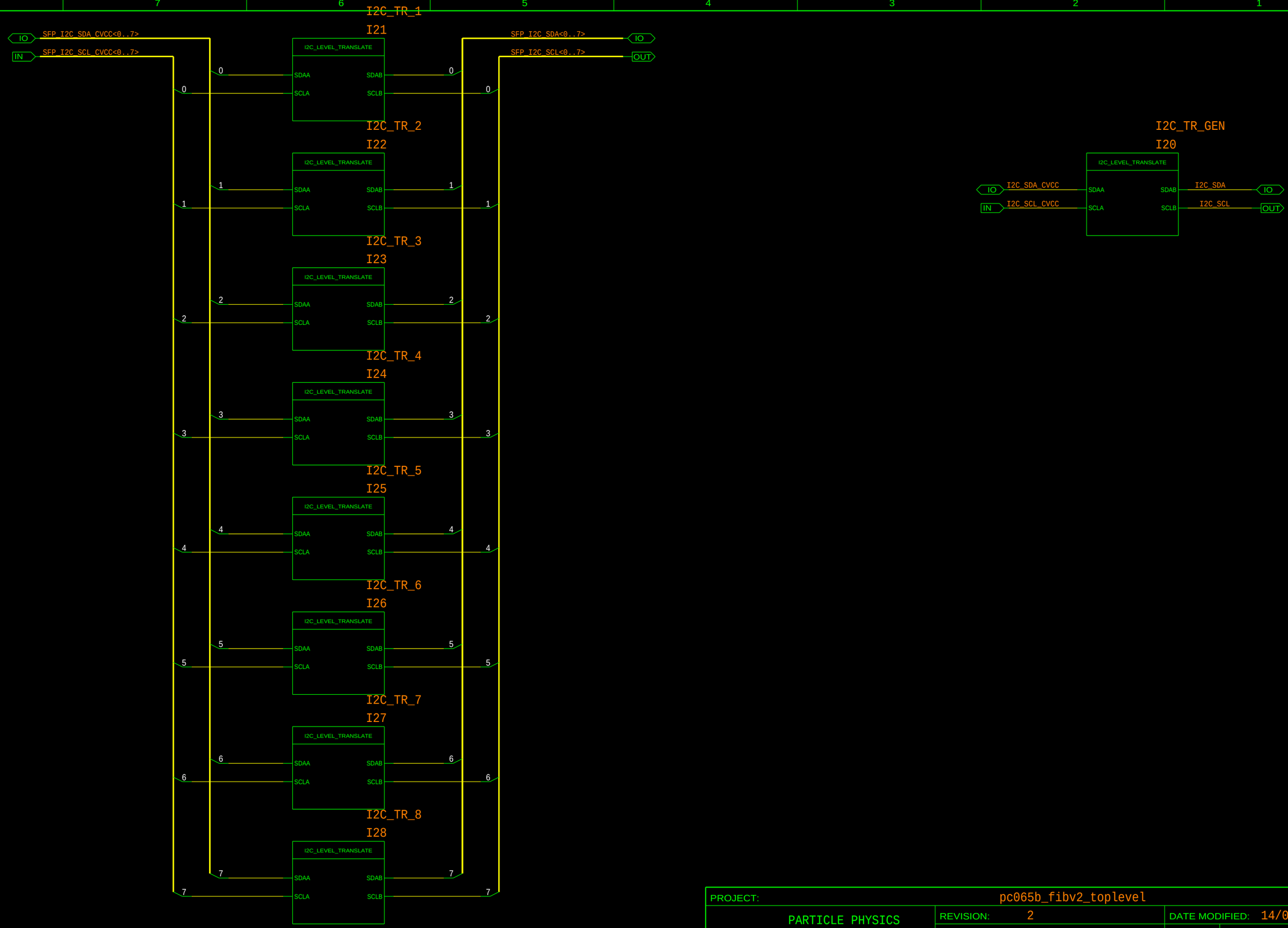
	CLOCK		



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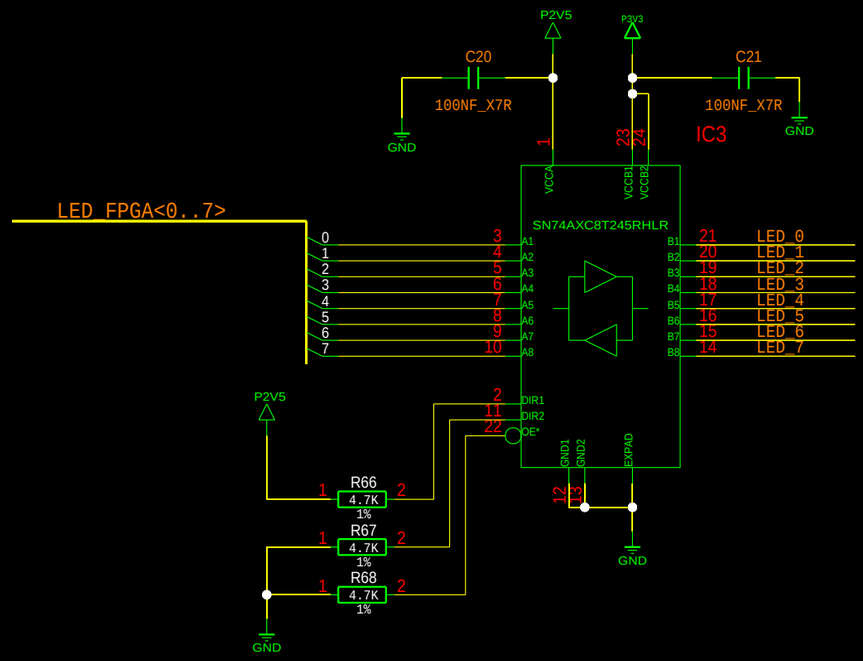
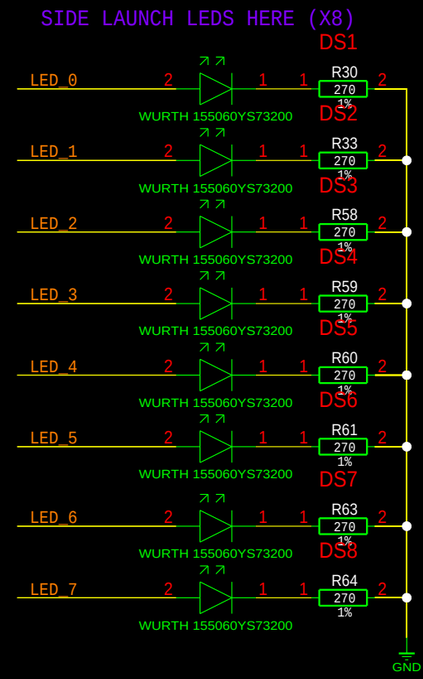
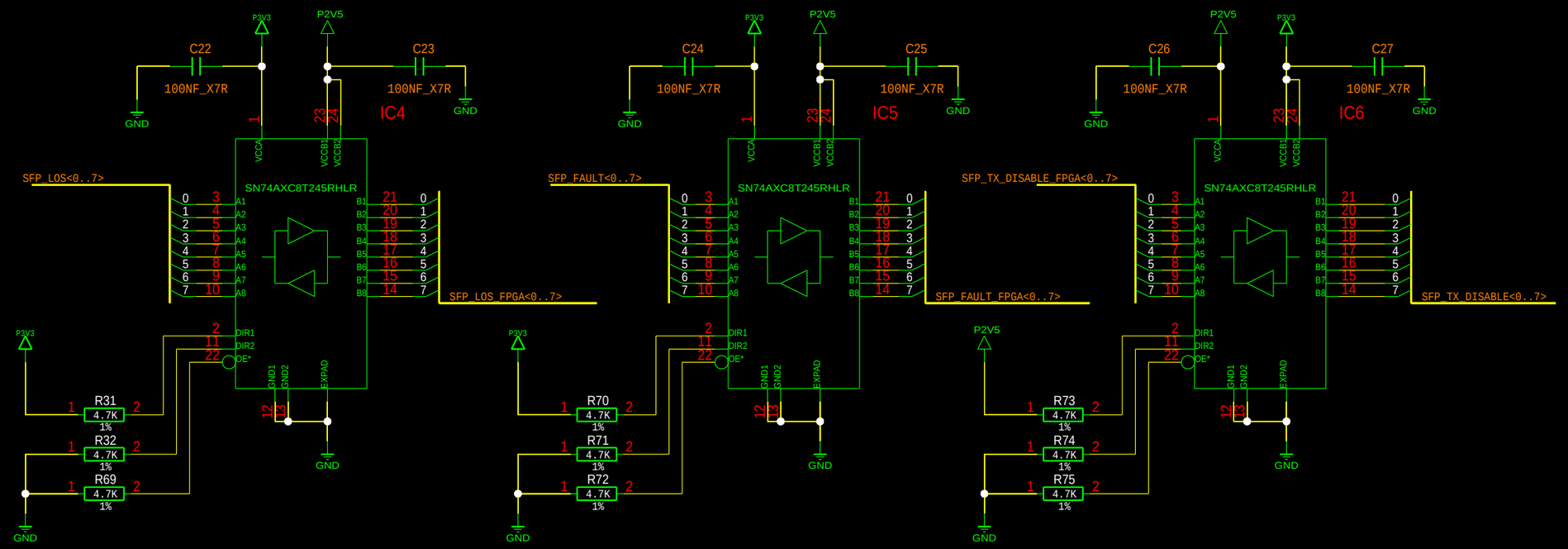
	I2C LEVEL TRANSLATORS		







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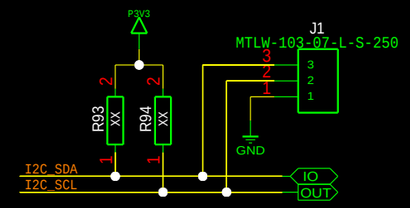
	LEVEL TRANSLATORS		



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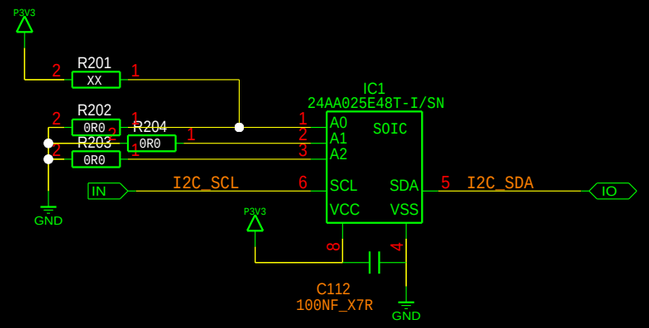
	CONNECTORS		

NBSG53AMNG IS AT END OF LIFE. DO NOT USE
ALTERNATIVES:
NB7V52MMNG
SY55852U
MAX9381EUA+

ADN2814ACPZ IS NO LONGER AVAILABLE



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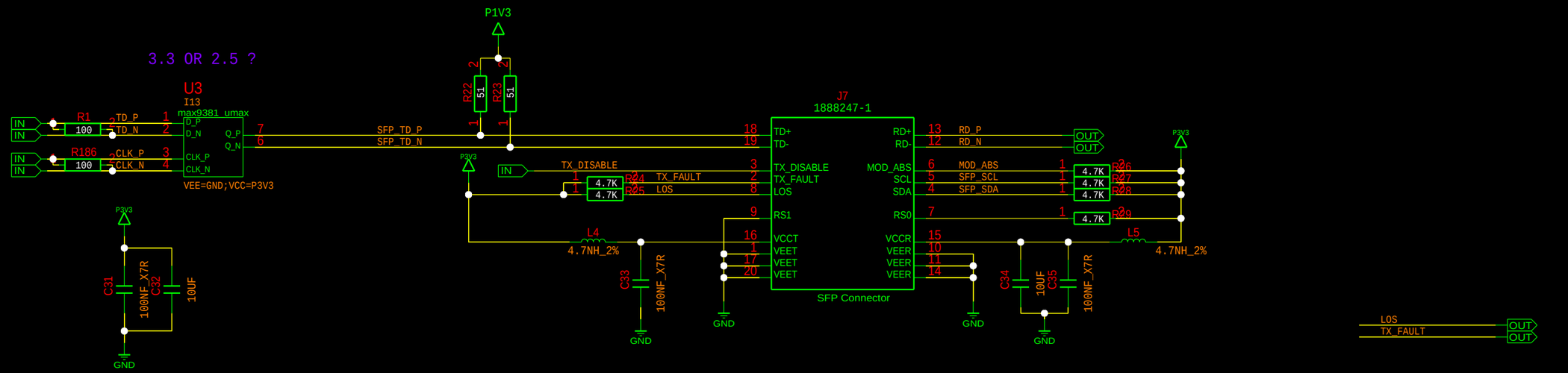
	EEPROM		



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PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
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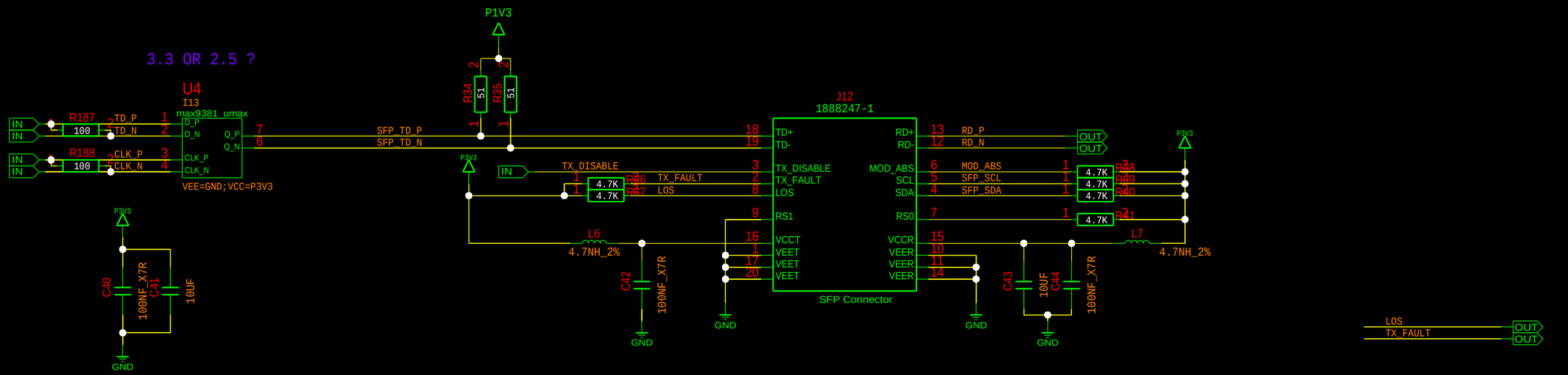

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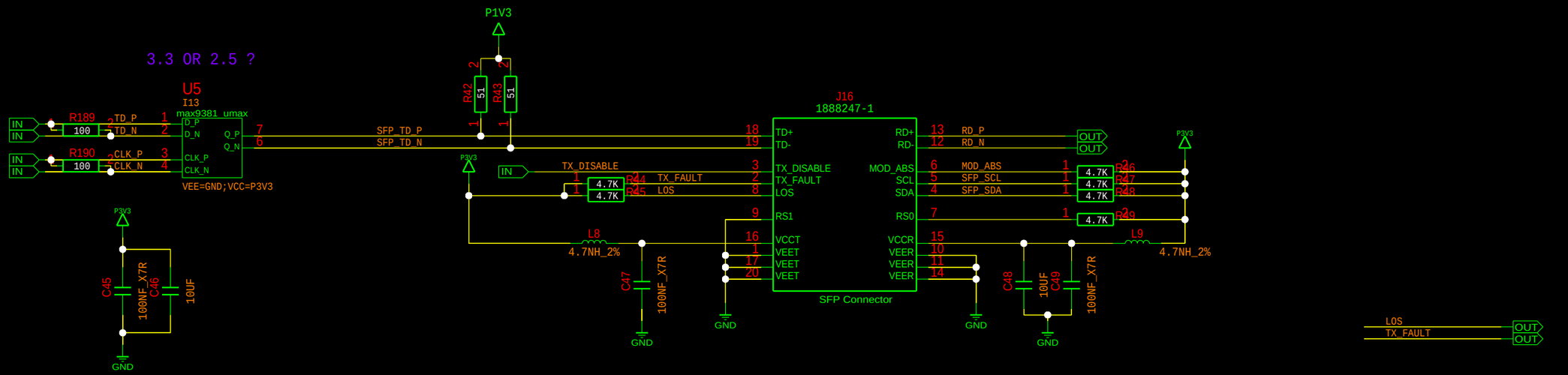

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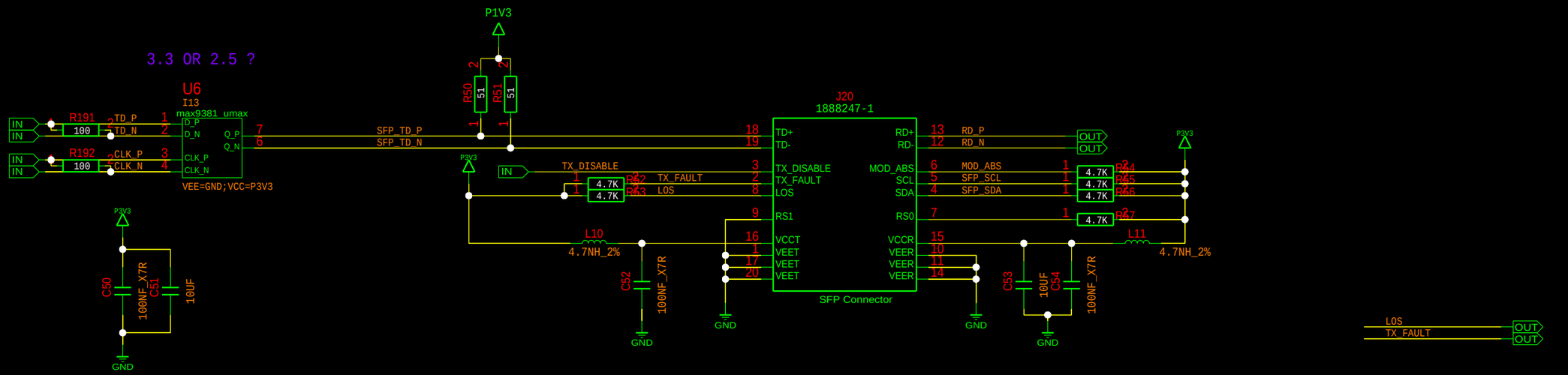

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PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
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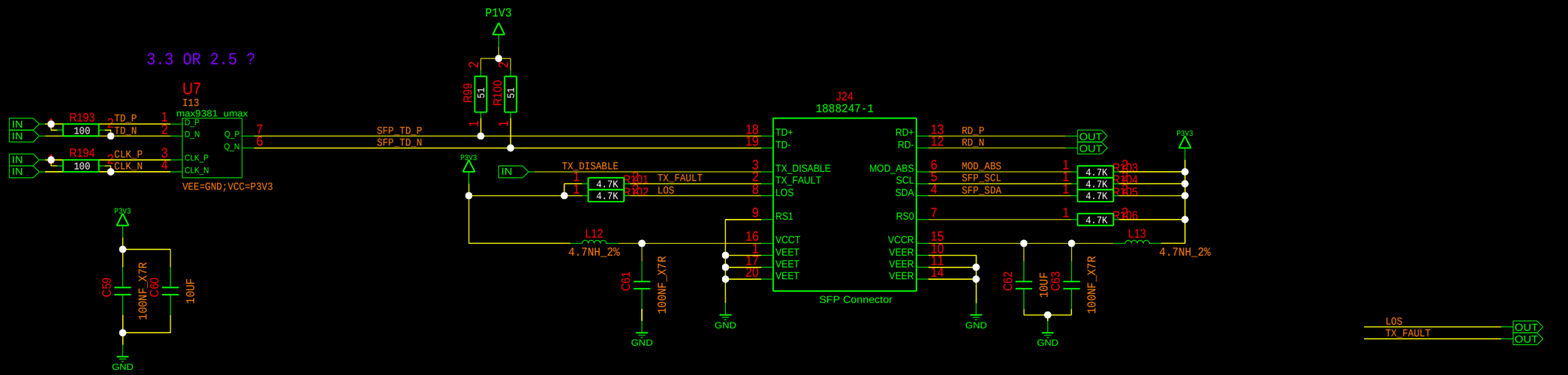

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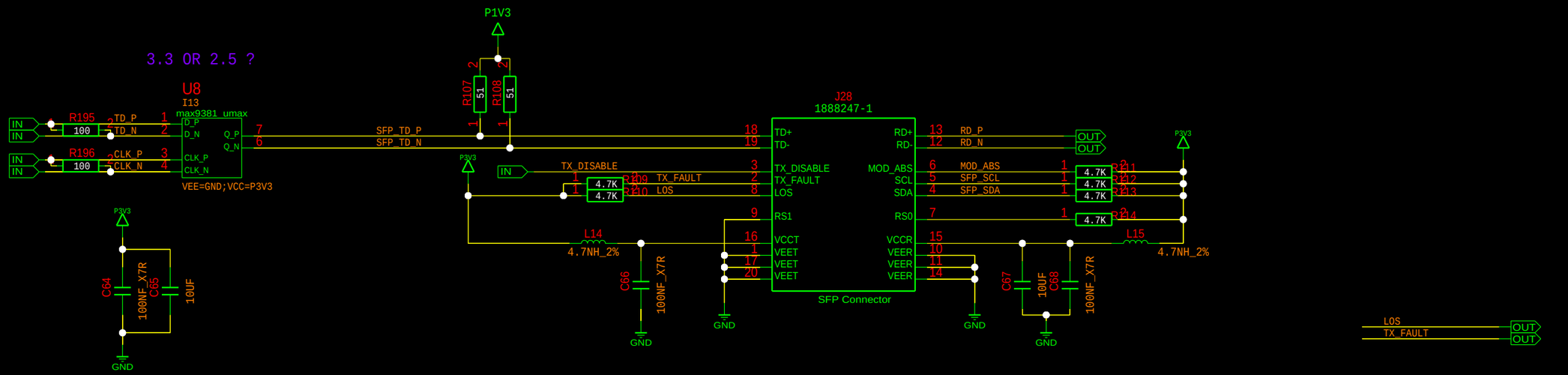

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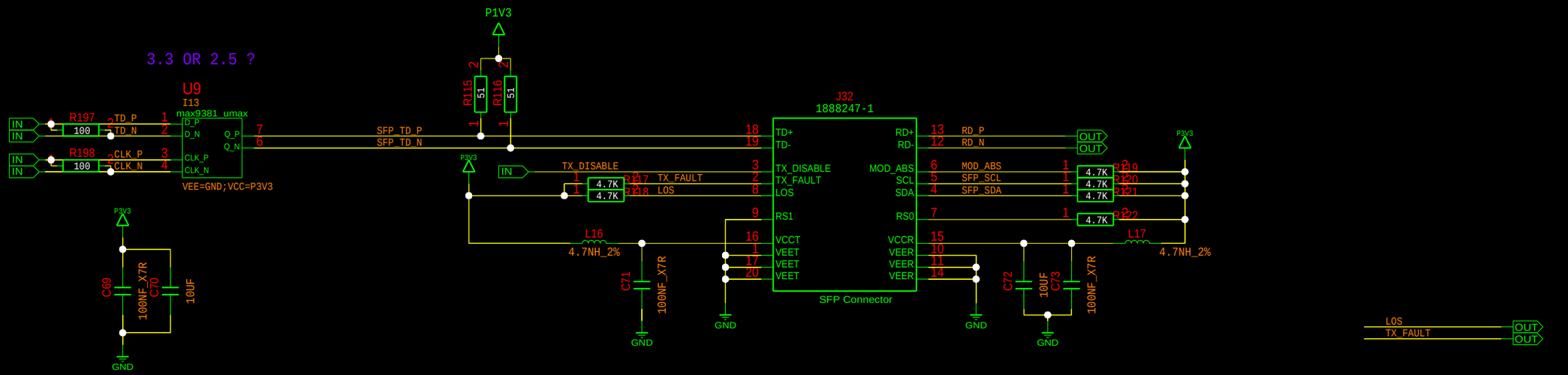

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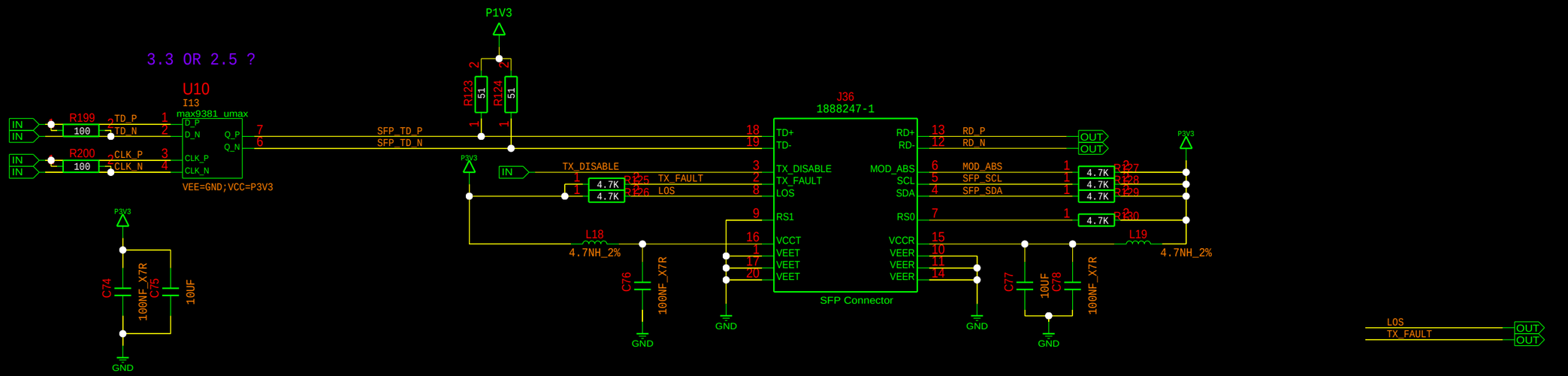

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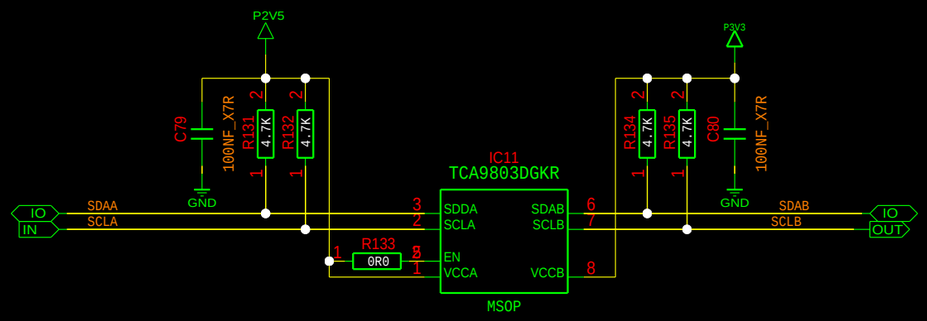

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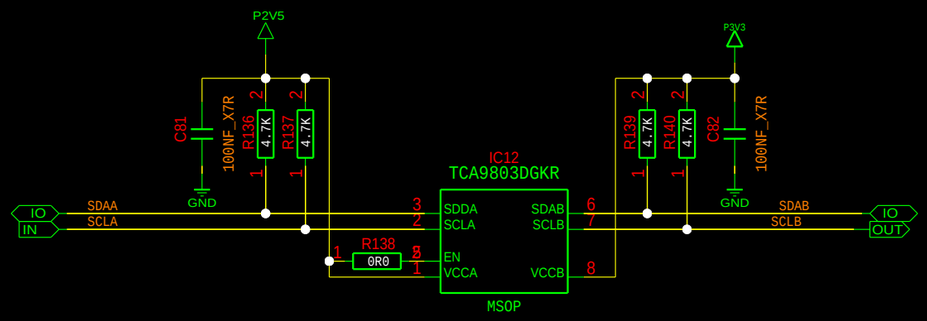
	I2C LEVEL TRANSLATOR		



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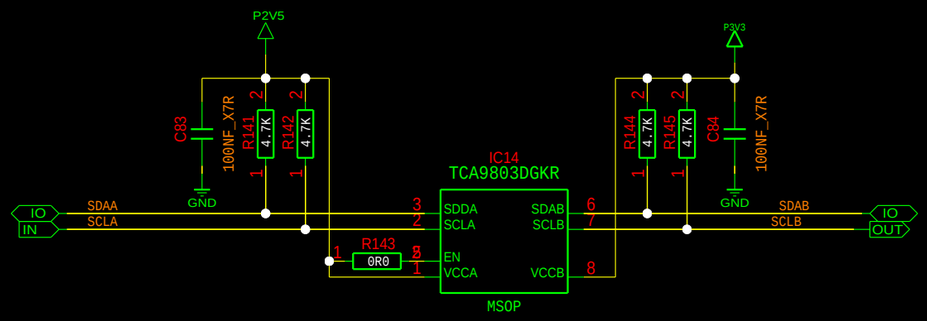
	I2C LEVEL TRANSLATOR		



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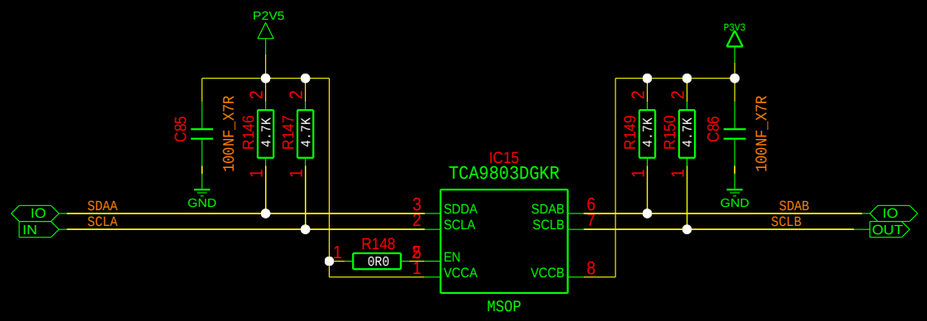
	I2C LEVEL TRANSLATOR		



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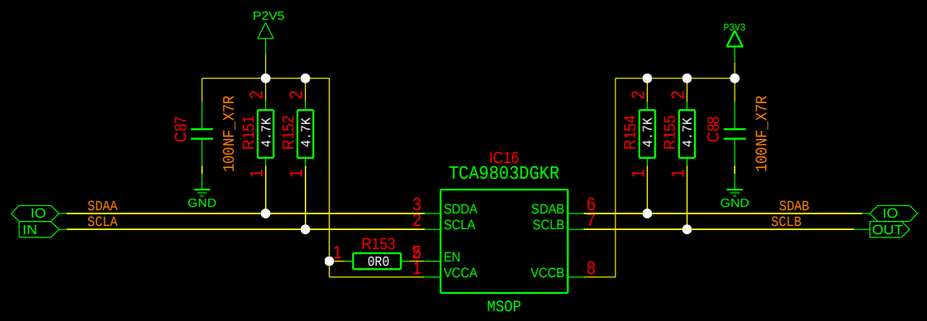

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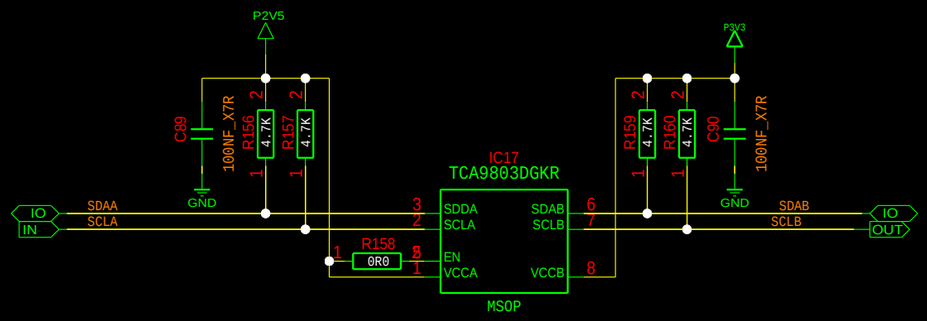
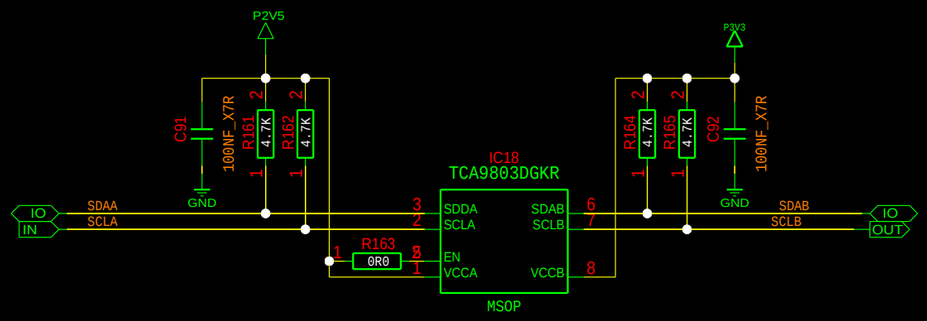
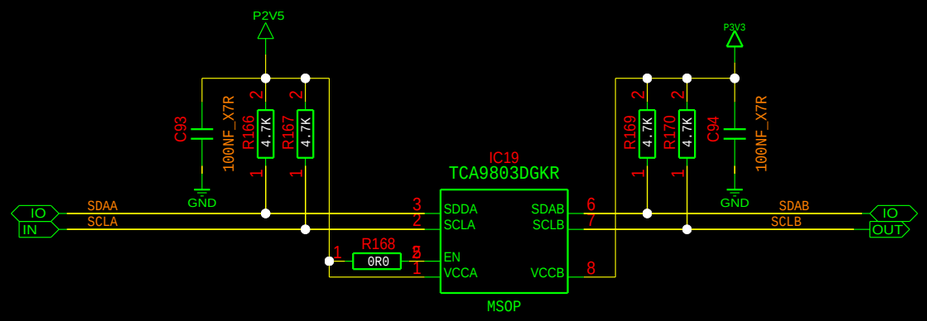
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 24 / 31
	I2C LEVEL TRANSLATOR		



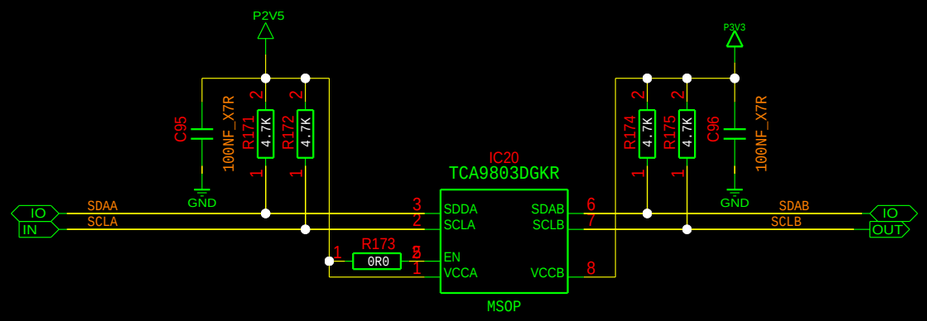
PROJECT:	i2c_level_translate		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 25 / 31
	I2C LEVEL TRANSLATOR		



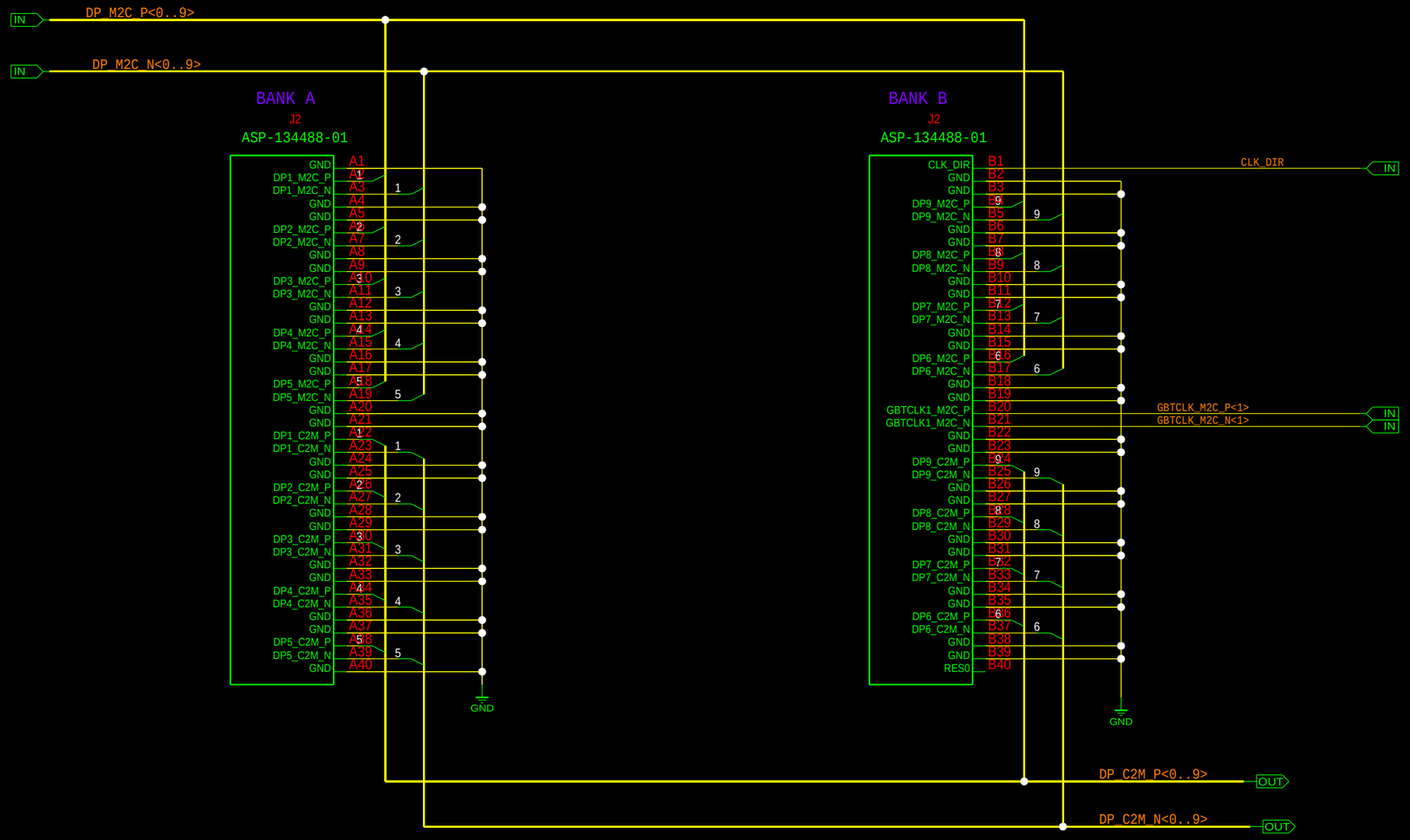
PROJECT:	i2c_level_translate		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 26 / 31
	I2C LEVEL TRANSLATOR		



PROJECT:	i2c_level_translate		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 27 / 31
	I2C LEVEL TRANSLATOR		



PROJECT:	i2c_level_translate		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 28 / 31
	I2C LEVEL TRANSLATOR		



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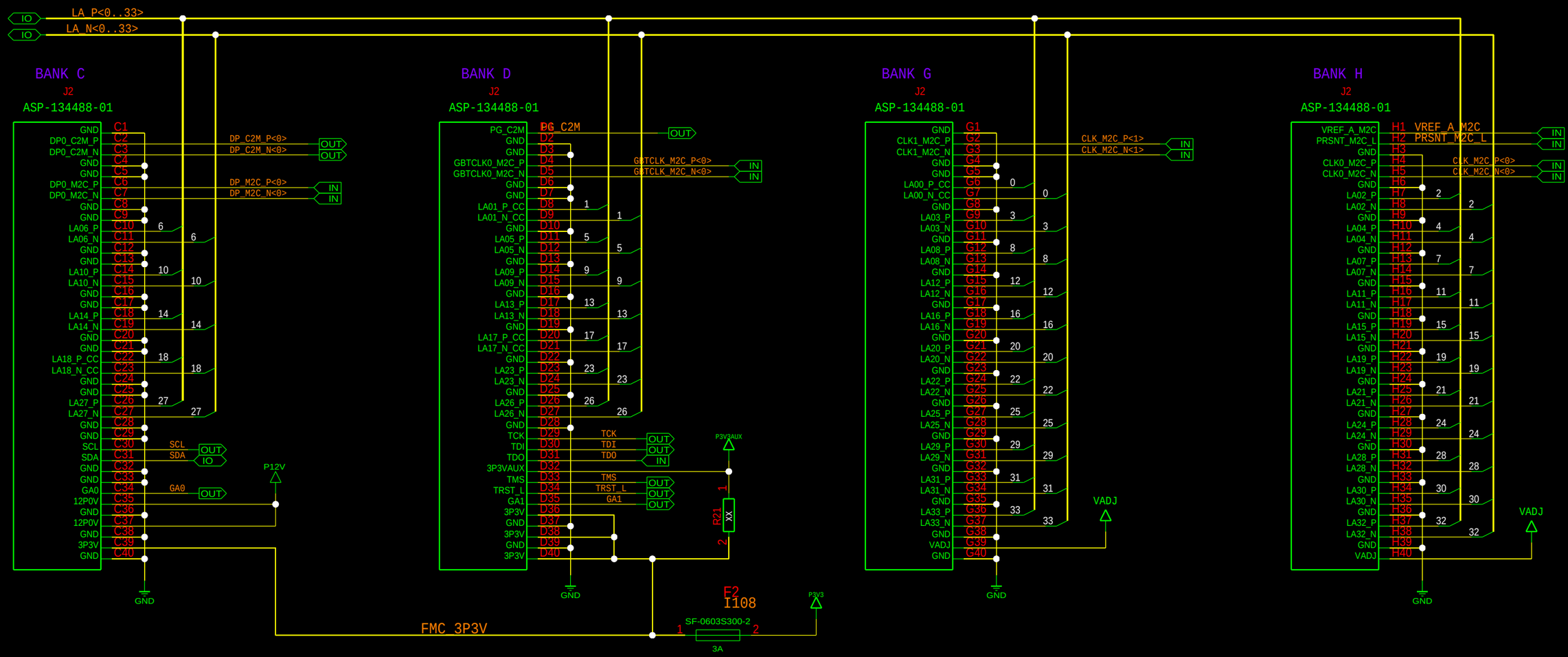
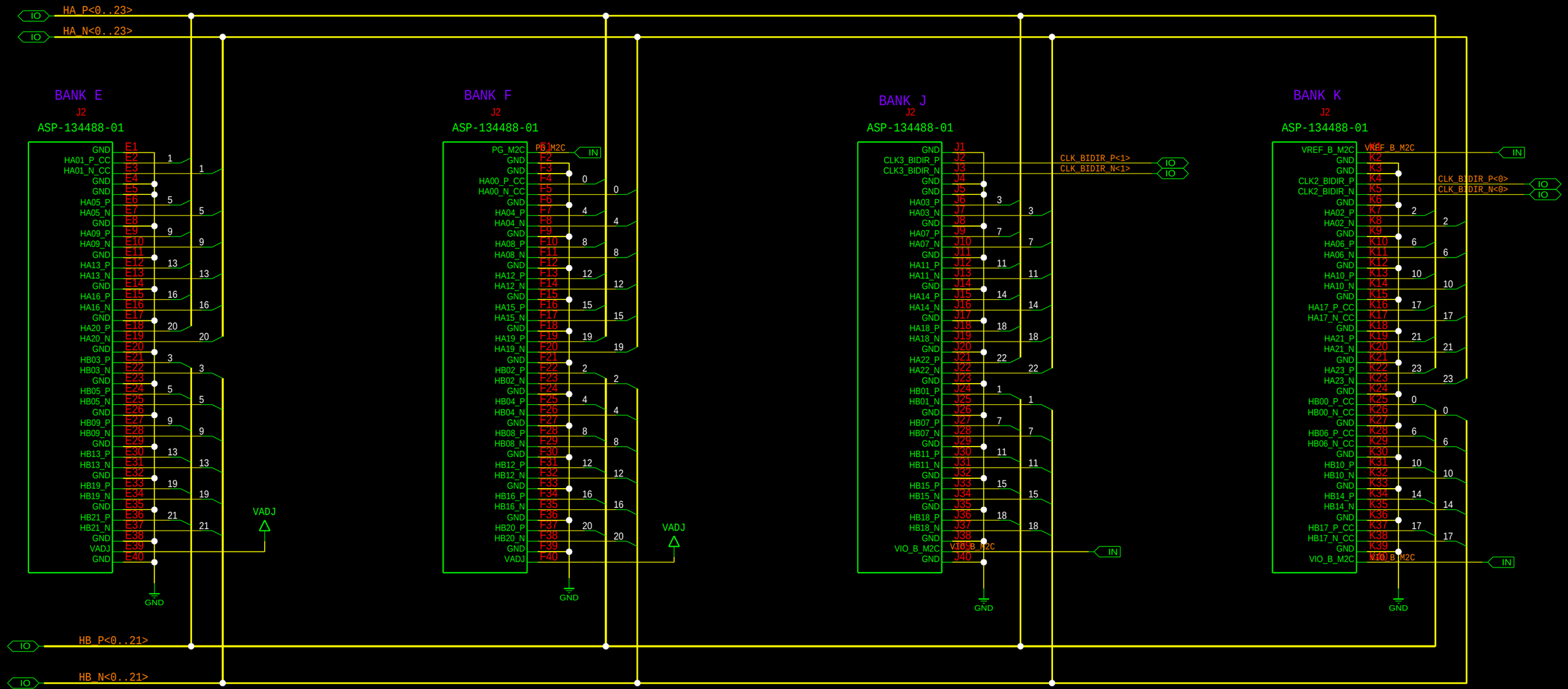
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 29 / 31
	FMC HPC AB		



PROJECT:	fmc_hpc_generic		
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 30 / 31
	FMC HPC CDGH		



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PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 31 / 31
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