TABLE OF CONTENTS

SHEET NO.	SHEET NAME	BLOCK NAME
1	TABLE OF CONTENT	pc065b_fibv2_toplevel
2	POWER	pc065b_fibv2_toplevel
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
13	page1	sfp_module
14	page1	sfp_module
15	page1	sfp_module

TABLE OF CONTENTS

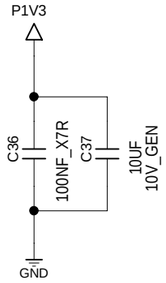
SHEET NO.	SHEET NAME	BLOCK NAME
16	page1	sfp_module
17	page1	sfp_module
18	page1	sfp_module
19	page1	sfp_module
20	I2C LEVEL TRANSLATOR	i2c_level_translate
21	I2C LEVEL TRANSLATOR	i2c_level_translate
22	I2C LEVEL TRANSLATOR	i2c_level_translate
23	I2C LEVEL TRANSLATOR	i2c_level_translate
24	I2C LEVEL TRANSLATOR	i2c_level_translate
25	I2C LEVEL TRANSLATOR	i2c_level_translate
26	I2C LEVEL TRANSLATOR	i2c_level_translate
27	I2C LEVEL TRANSLATOR	i2c_level_translate
28	I2C LEVEL TRANSLATOR	i2c_level_translate
29	AB	fmc_hpc_generic
30	CDGH	fmc_hpc_generic

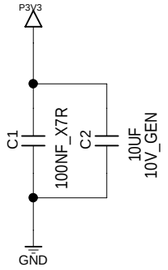
TABLE OF CONTENTS

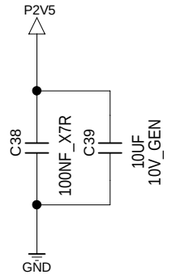
SHEET NO.	SHEET NAME	BLOCK NAME
31	EFJK	fmc_hpc_generic

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

PROJECT:	pc065b_fibv2_toplevel		
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: 1 / 31
	TABLE OF CONTENT		

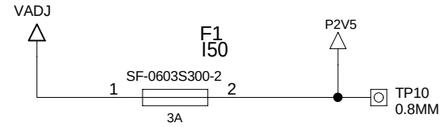






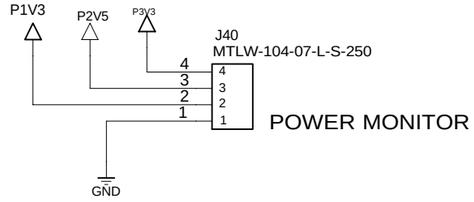
USE 2V5 OR VADJ FOR TRANSLATORS?

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

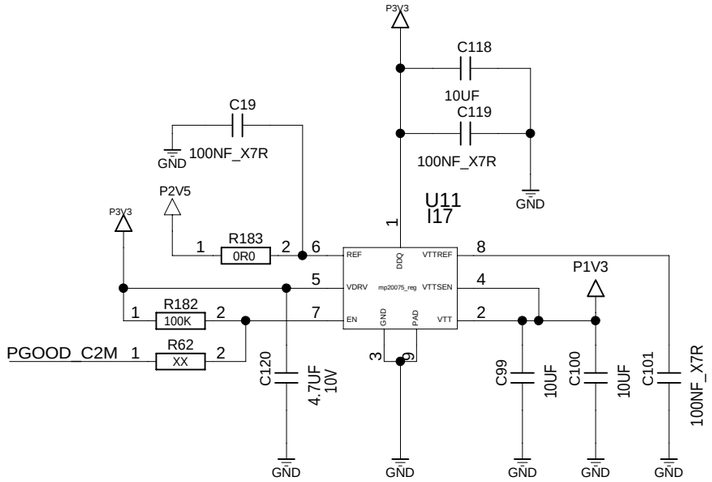


MAX CURRENTS PER RAILS

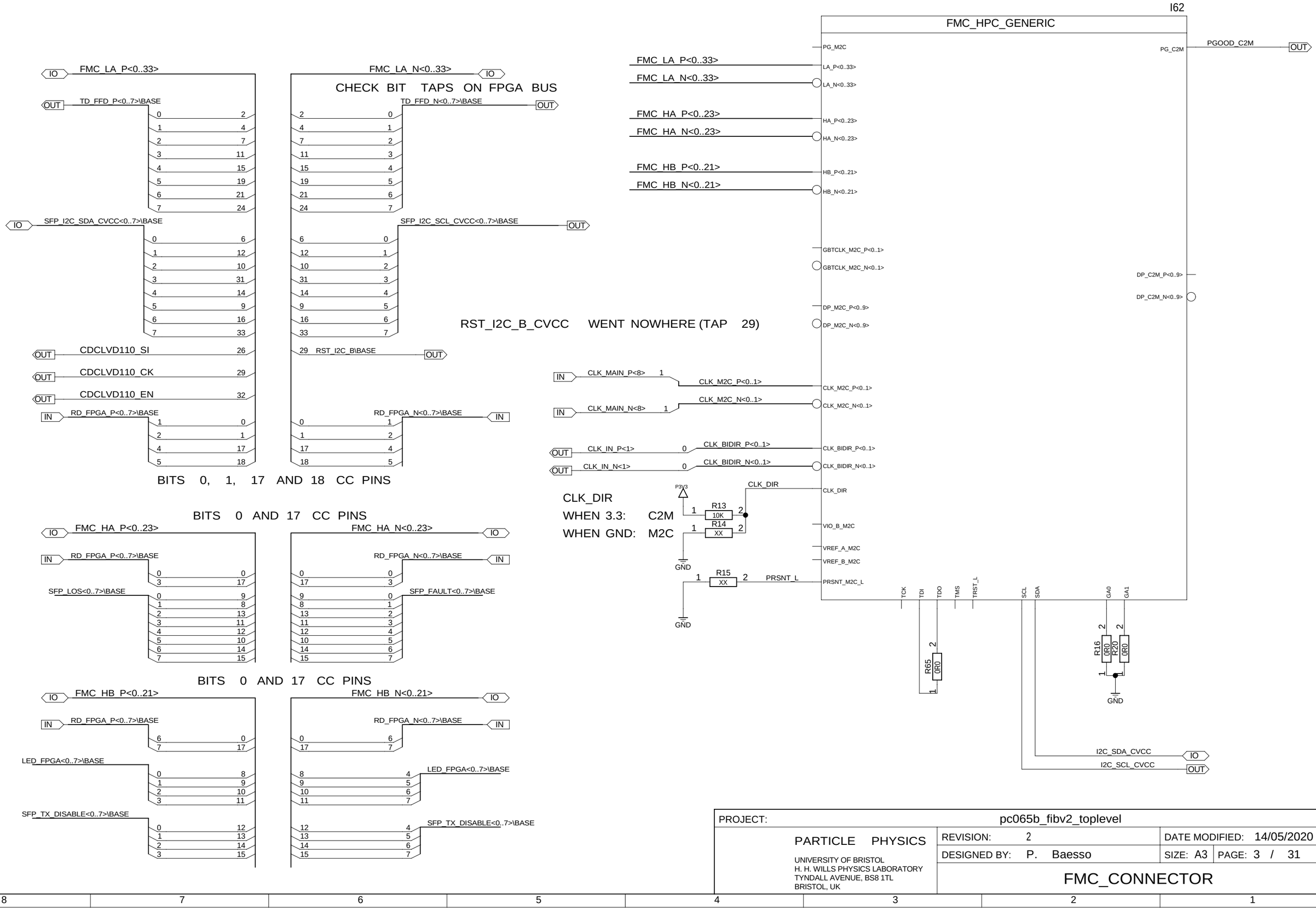
P3V3: 3 A
P12V: 1A
VADJ: 4 A



POWER MONITOR



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	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 2 / 31
	POWER		

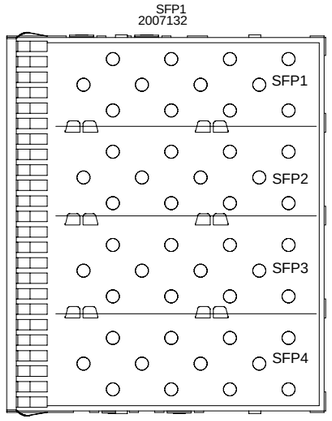


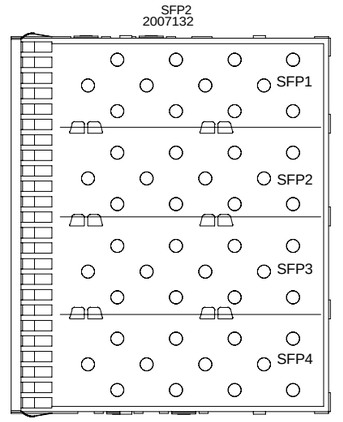
PROJECT:	pc065b_fibv2_toplevel		
PARTICLE PHYSICS	REVISION: 2	DATE MODIFIED: 14/05/2020	
UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 3 / 31
	FMC_CONNECTOR		

1X4 SFP+ CAGE

USE 2110069-1 FOR LIGHTPIPES

USE 2007132-1 FOR NO LIGHTGUIDES





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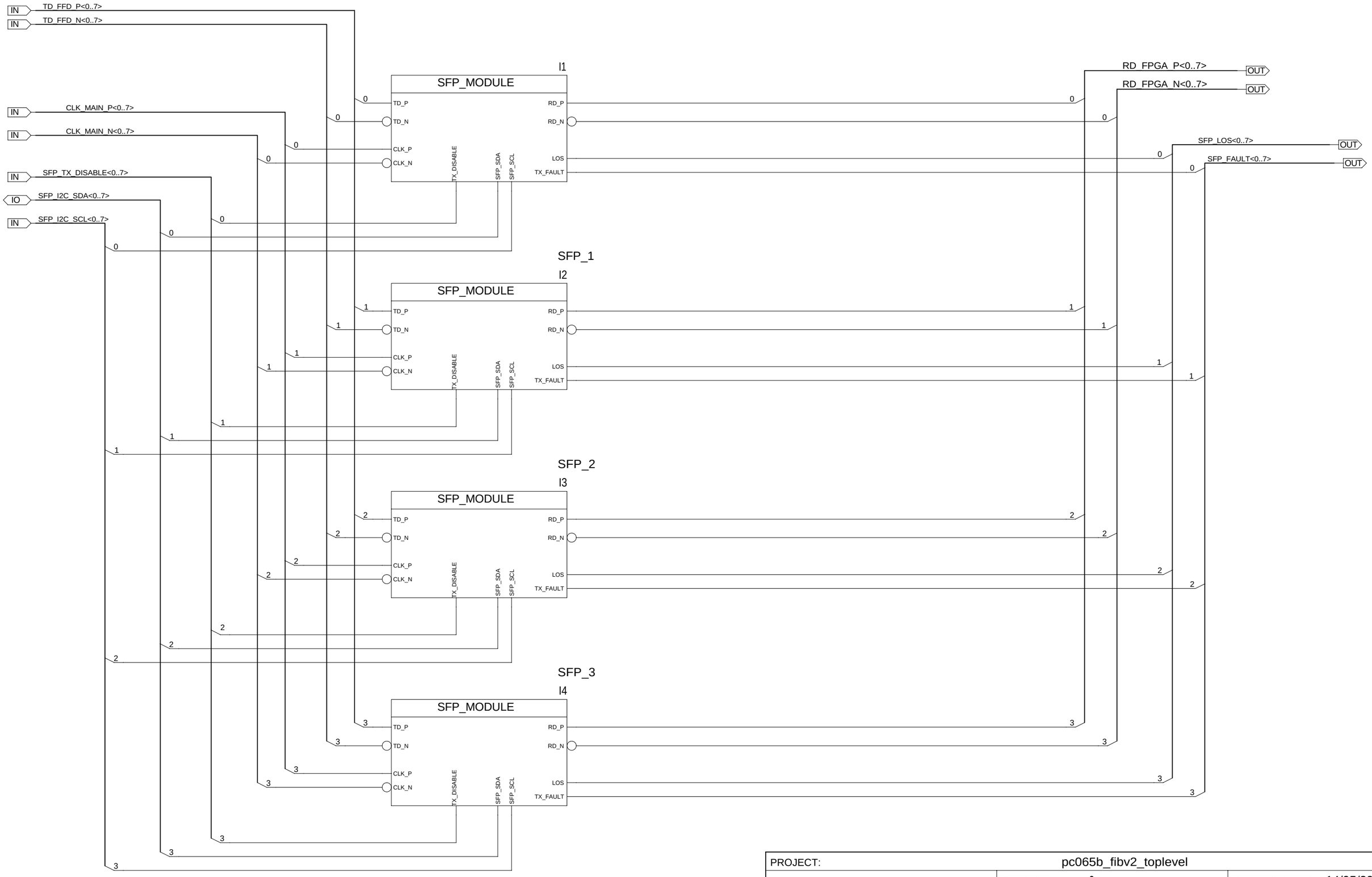
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 4 / 31
	SFP_CONNECTORS		



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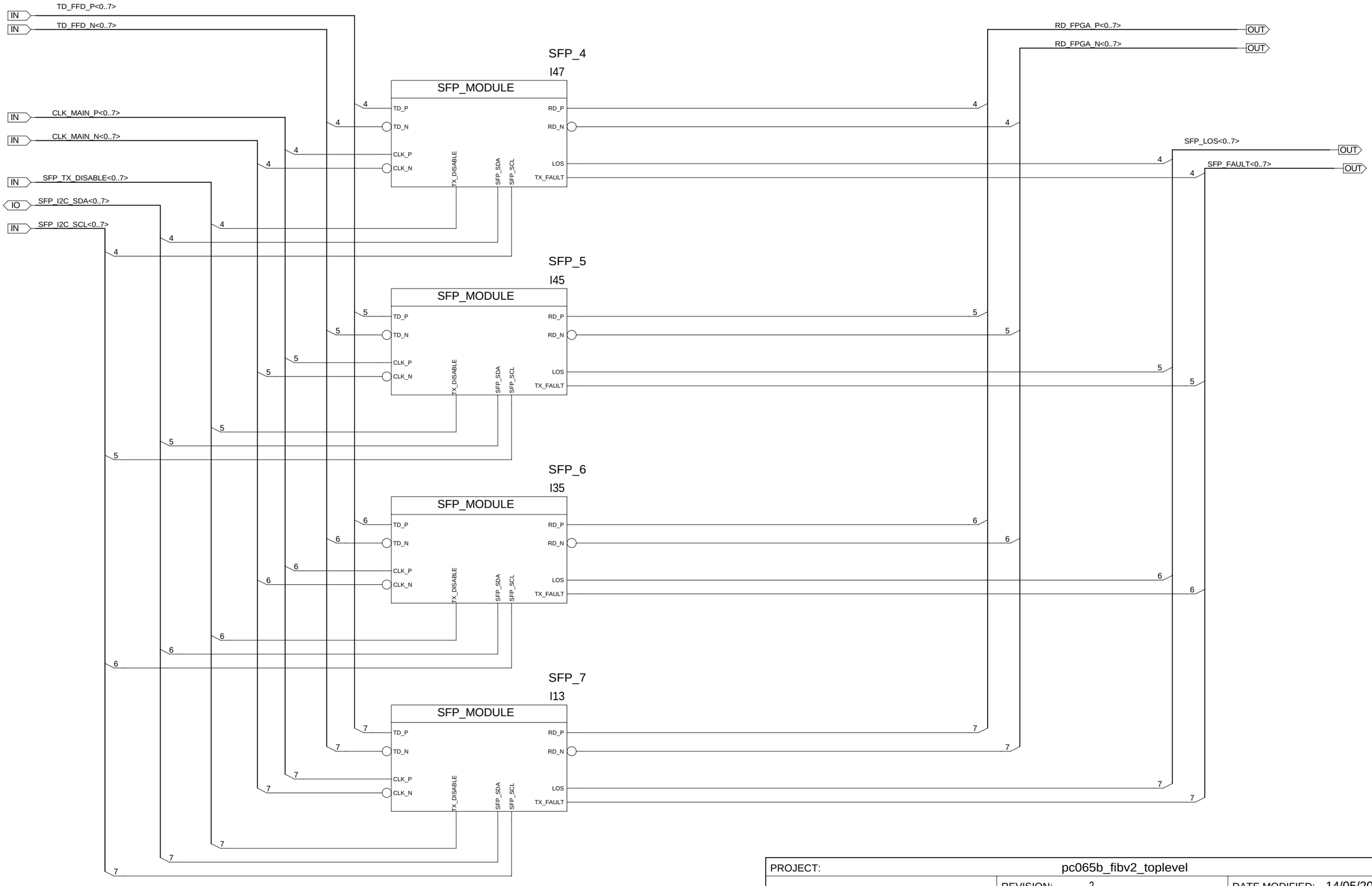
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 5 / 31
	SFP_INTERFACE_0:3		



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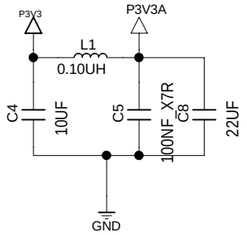
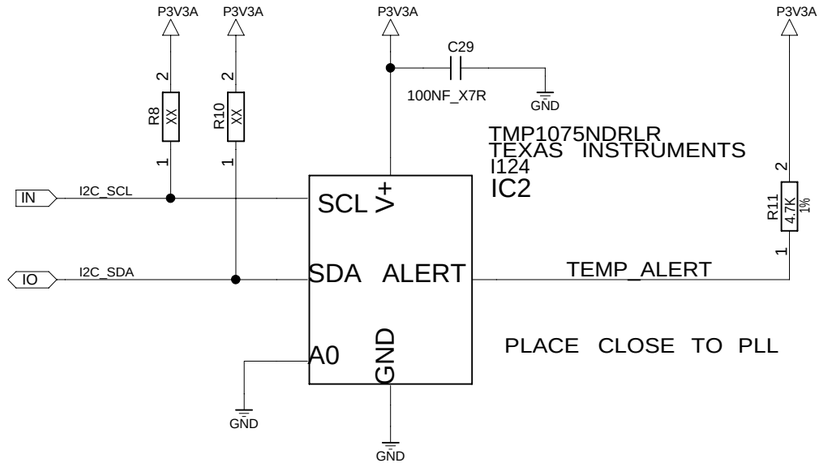
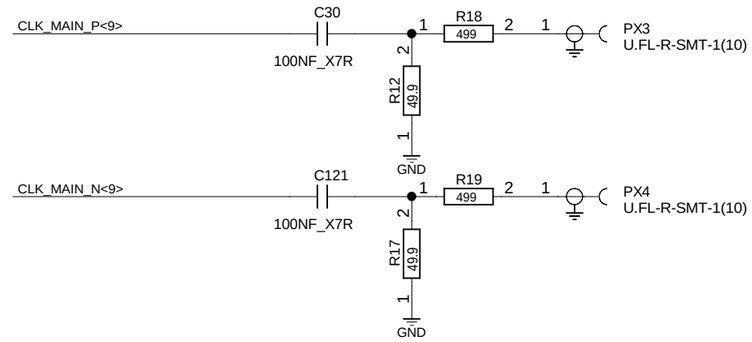
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 6 / 31
	SFP_INTERFACE_4:7		



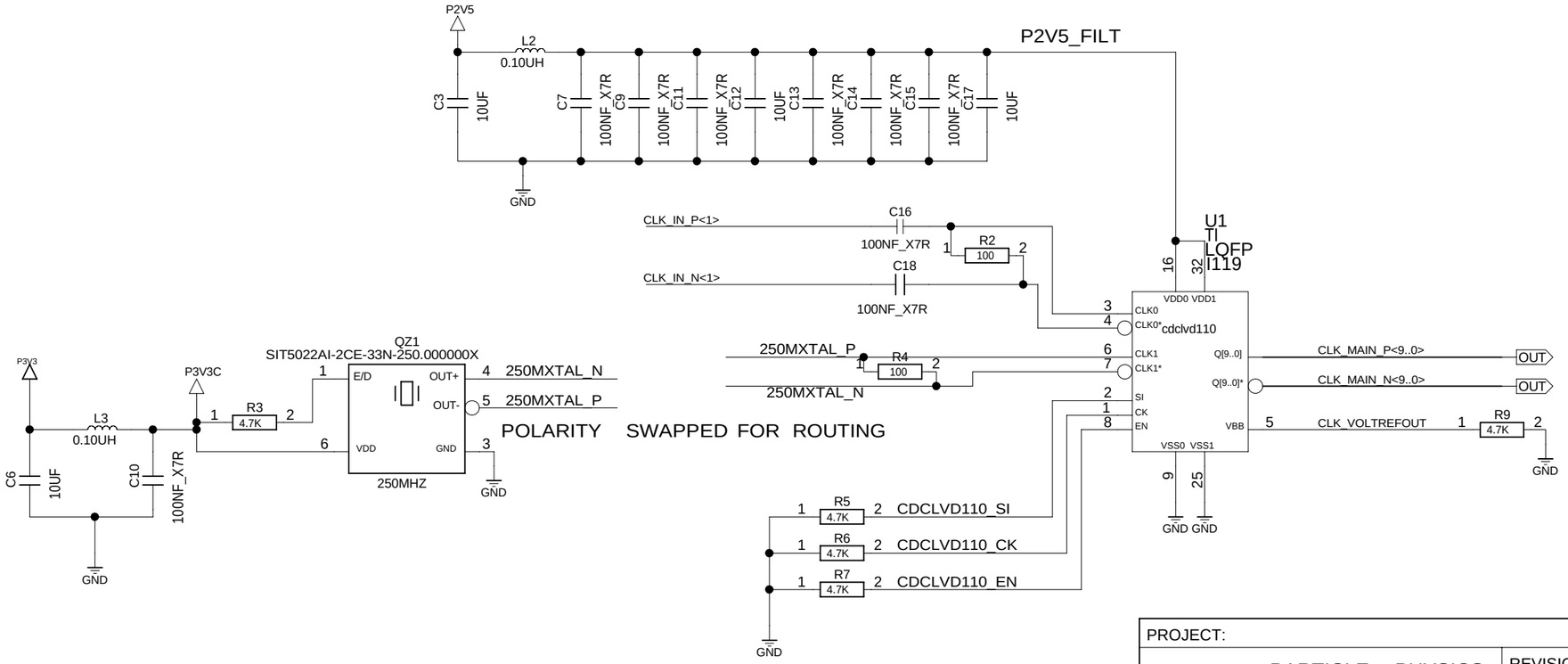




IN CLK_IN_P<3..0>

IN CLK_IN_N<3..0>

ONLY BIT 1 USED ON THIS SHEET



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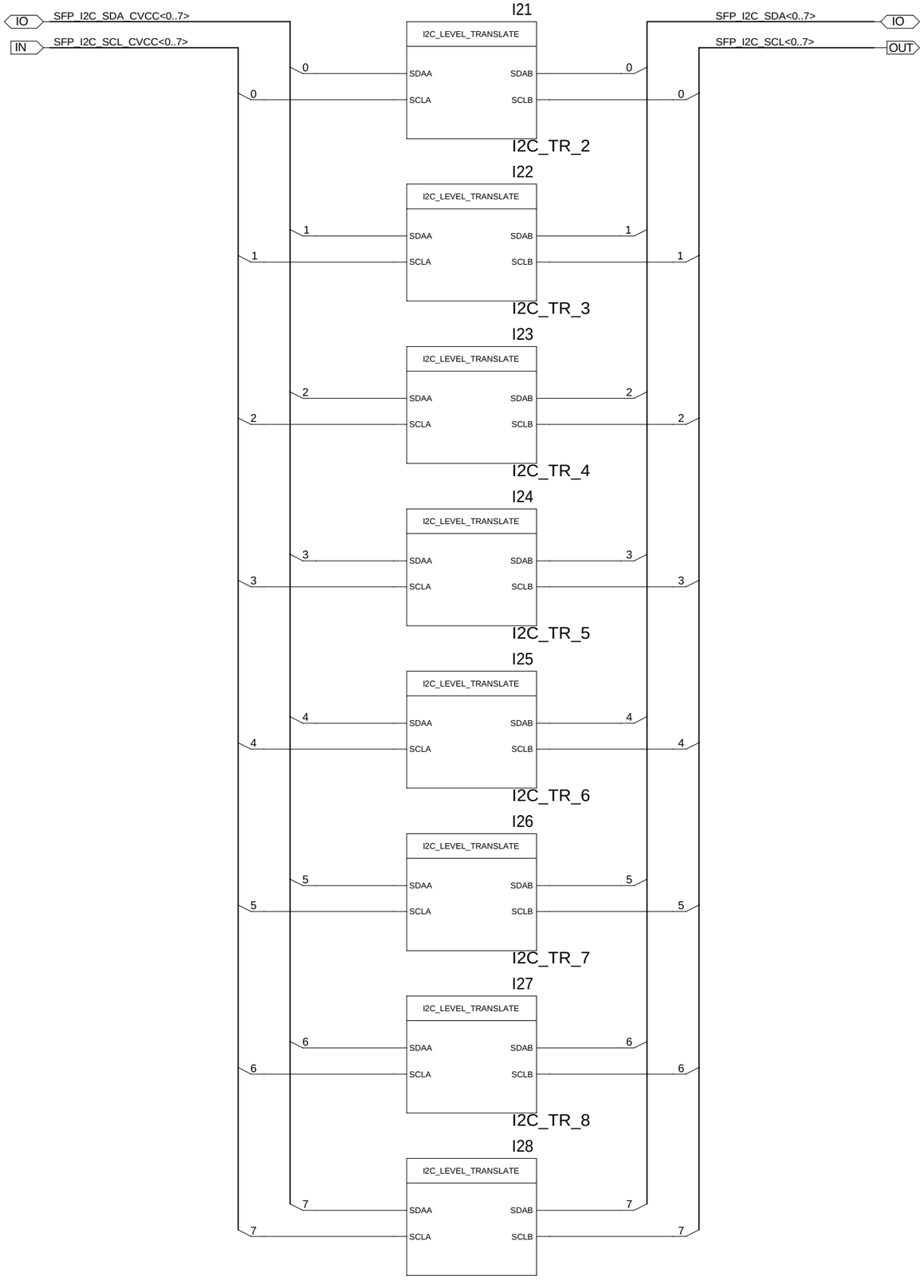
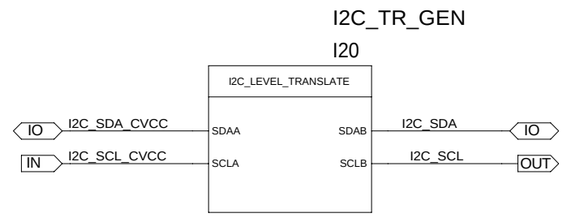
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 7 / 31
	CLOCK		





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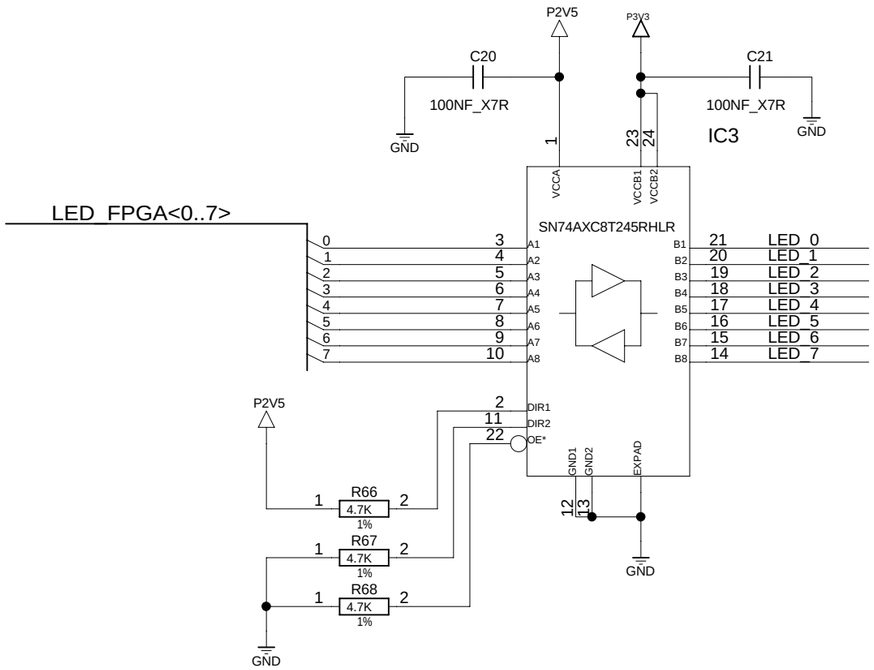
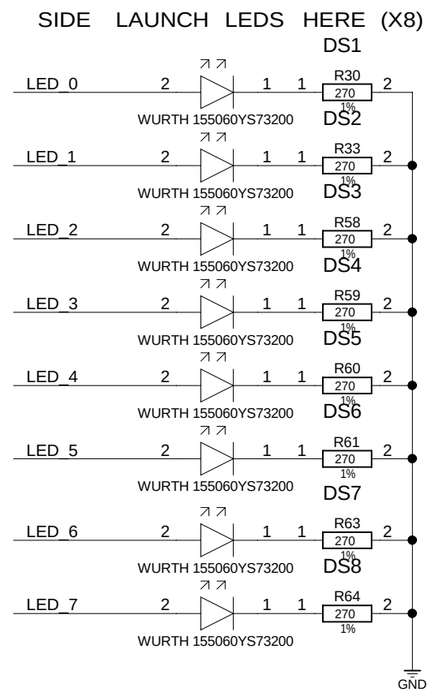
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 8 / 31
	I2C LEVEL TRANSLATORS		





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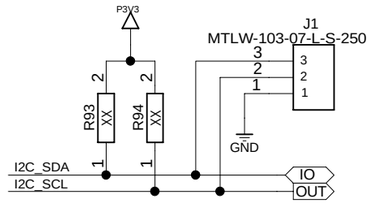
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 9 / 31
	LEVEL TRANSLATORS		



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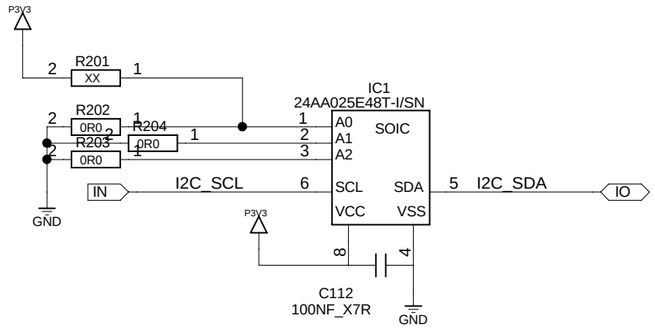
PARTICLE PHYSICS UNIVERSITY OF BRISTOL H. H. WILLS PHYSICS LABORATORY TYNDALL AVENUE, BS8 1TL BRISTOL, UK	REVISION: 2	DATE MODIFIED: 14/05/2020	
	DESIGNED BY: P. Baesso	SIZE: A3	PAGE: 10 / 31
	CONNECTORS		

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

ADN2814ACPZ IS NO LONGER AVAILABLE



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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: 11 / 31
	EEPROM		