

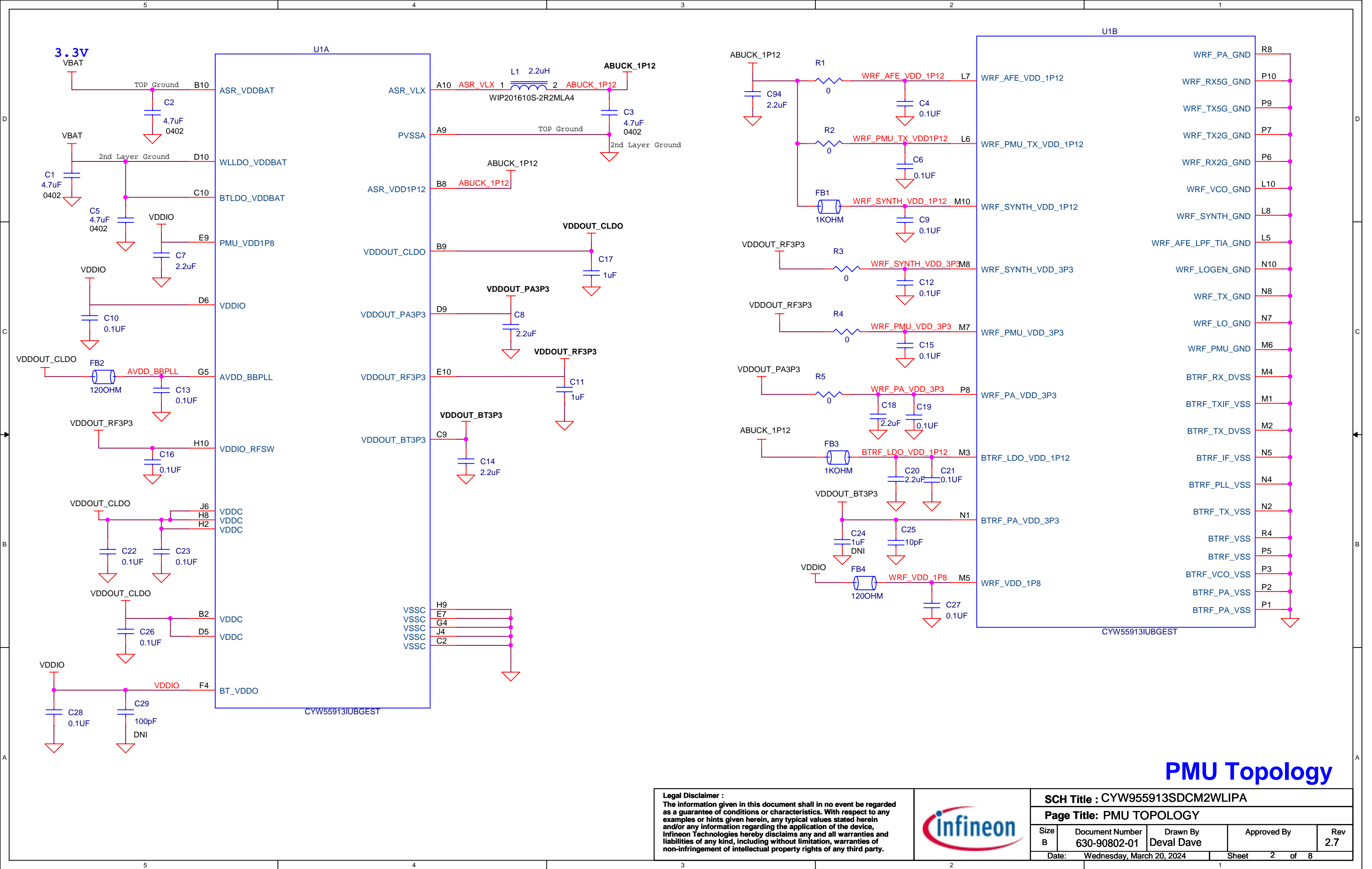
PCBA	121-90802-01
PCB	600-90802-01
FAB DRW	610-90802-01
ASSY DRW	620-90802-01
SCH DRW	630-90802-01

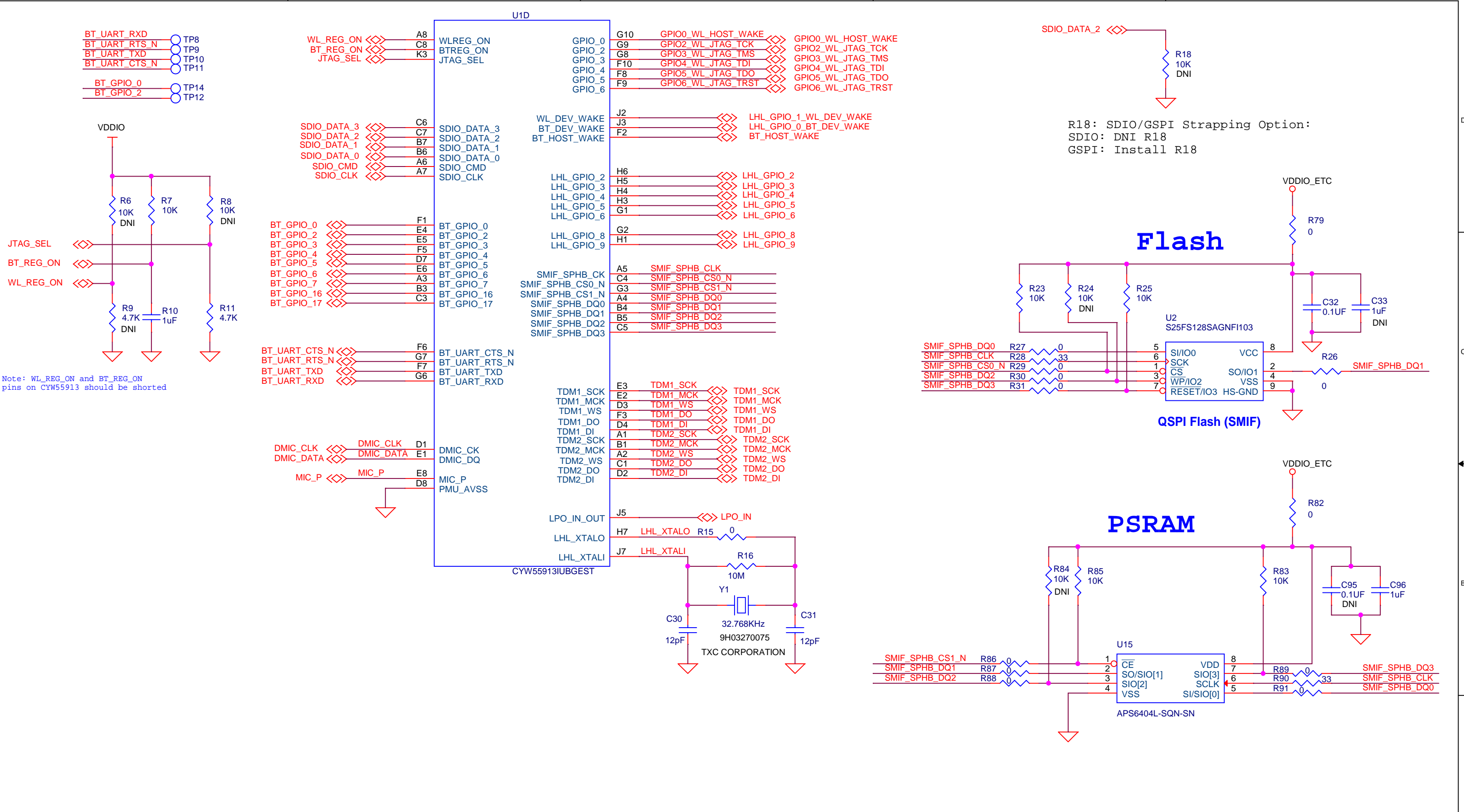
WLBGA Ballmap rev 2.6 **Block Diagram**

Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.



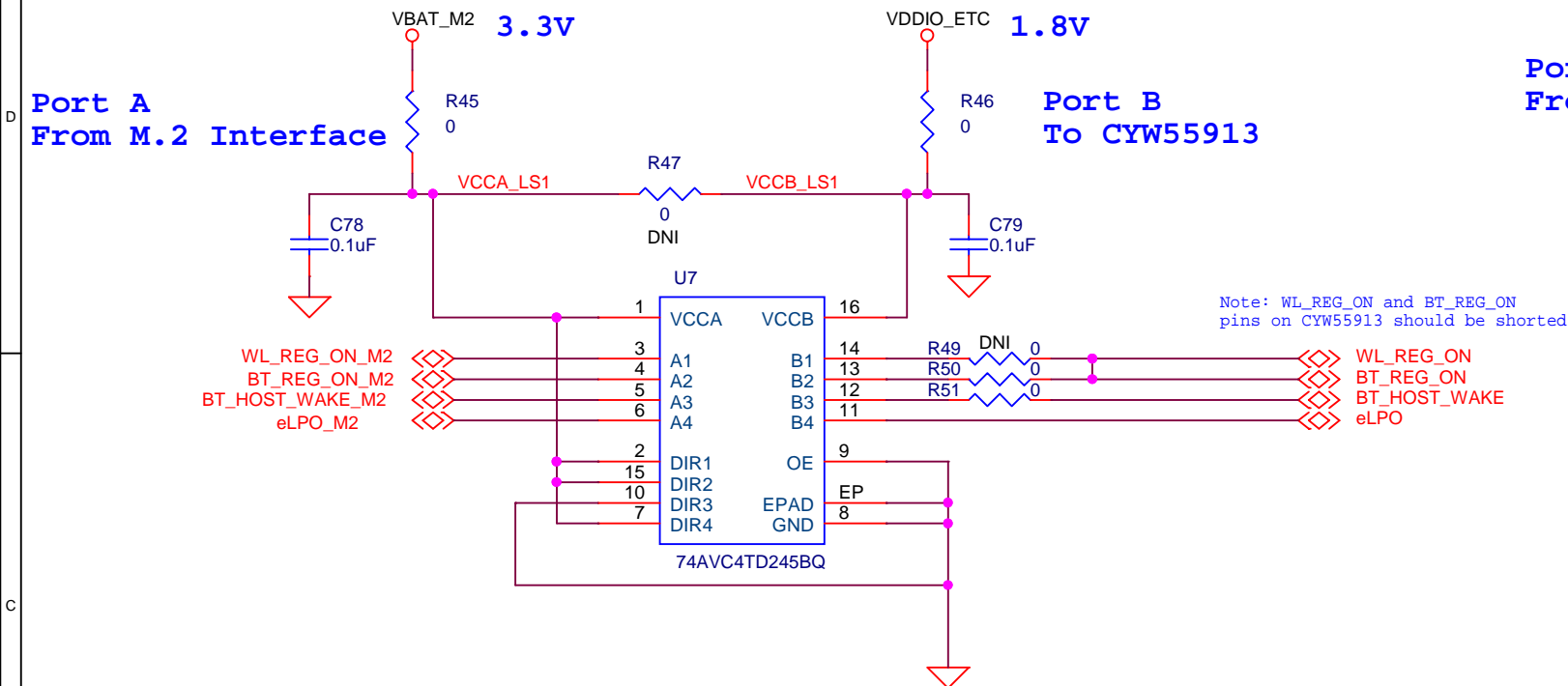
SCH Title : CYW955913SDCM2WLIPA				
Page Title: BLOCK DIAGRAM				
Size B	Document Number 630-90802-01	Drawn By Deval Dave	Approved By	Rev 2.7
Date: Wednesday, March 20, 2024		Sheet 1 of 8		



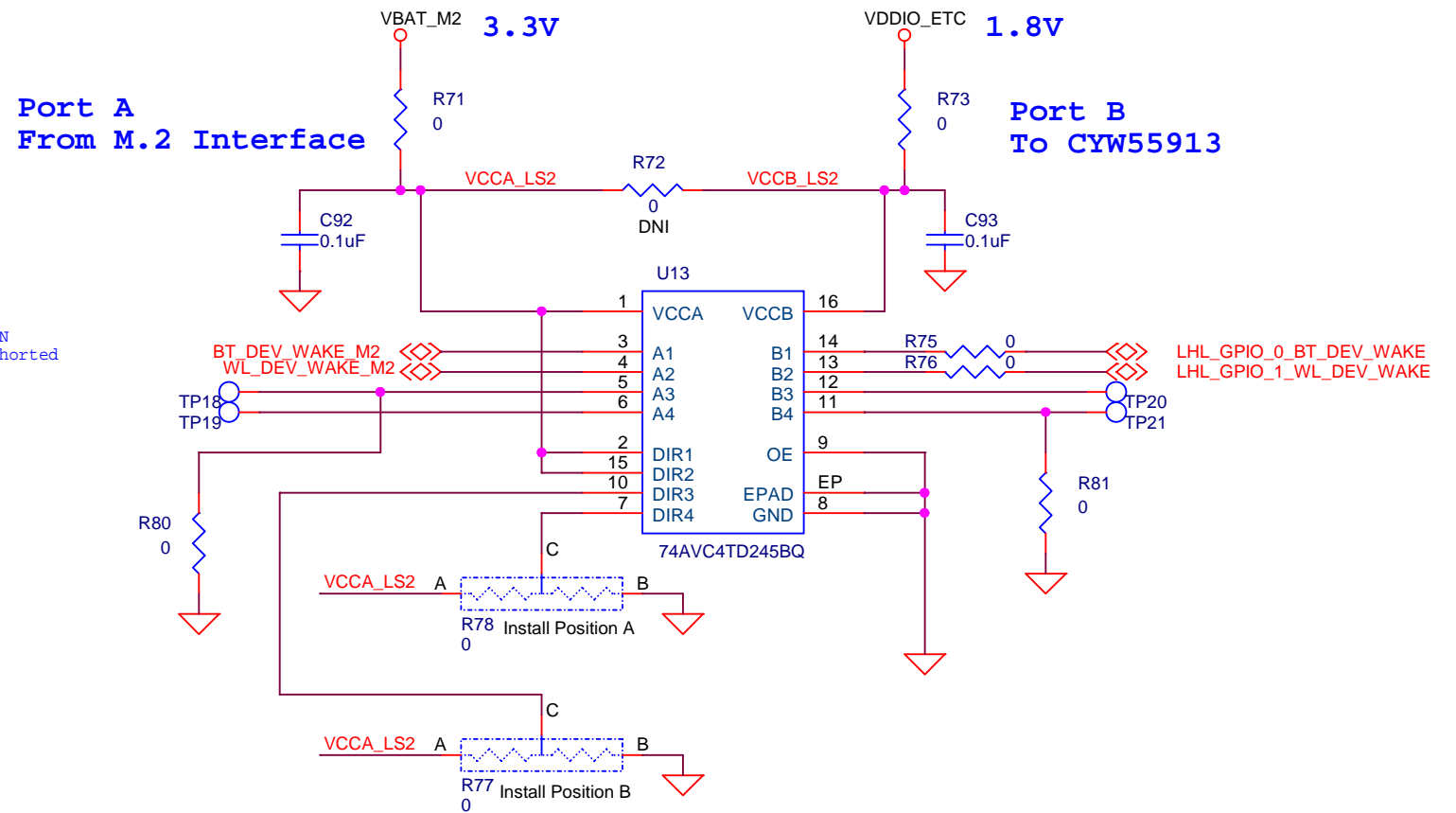


System Section 1

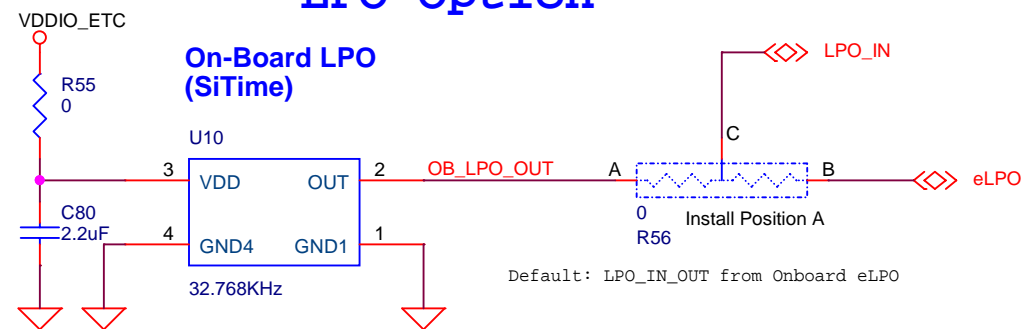
Voltage Level Translator



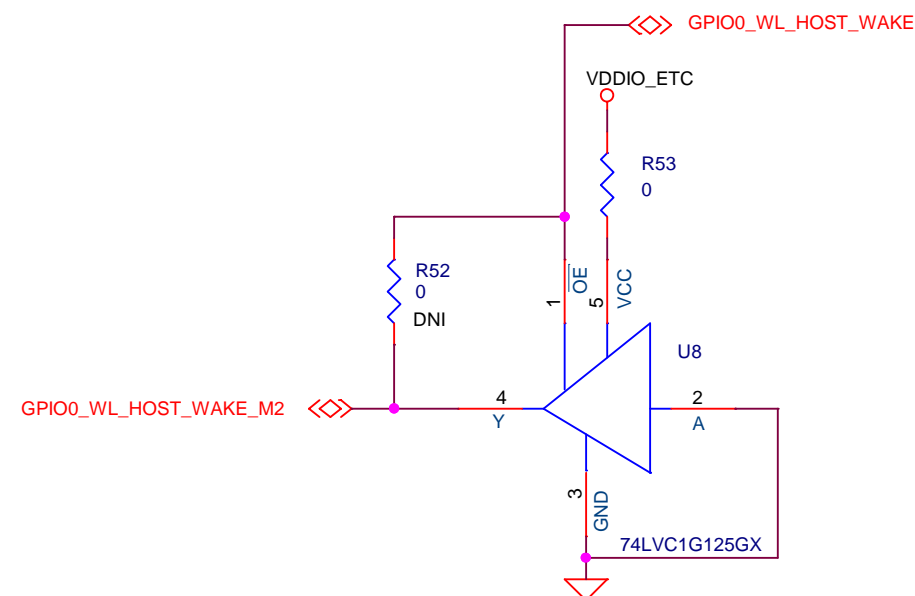
Voltage Level Translator



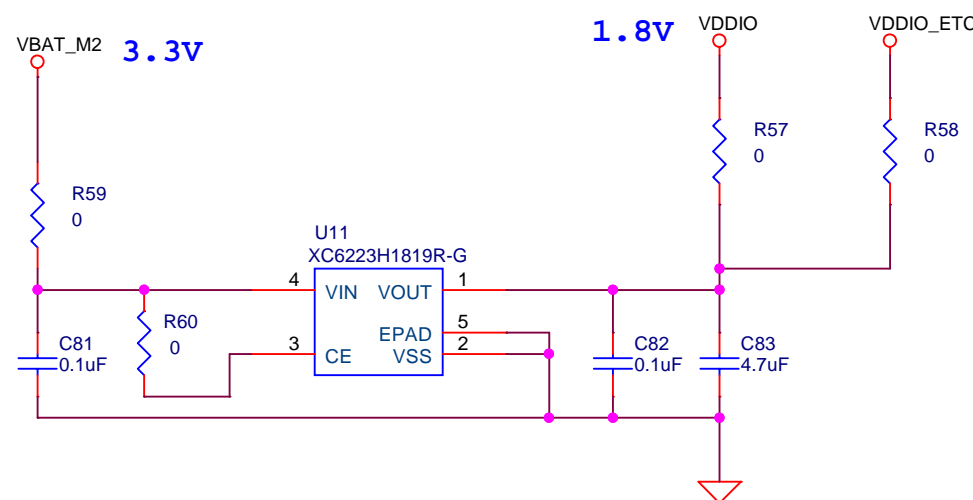
LPO Option



Non-Inverting Buffer

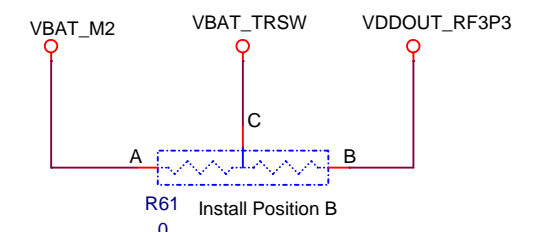


Voltage Regulator



RF Section SPDT/SD3T Voltage Selection

Default: VBAT_TRSW from VDDOUT_RF3P3



System Section 2

Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.



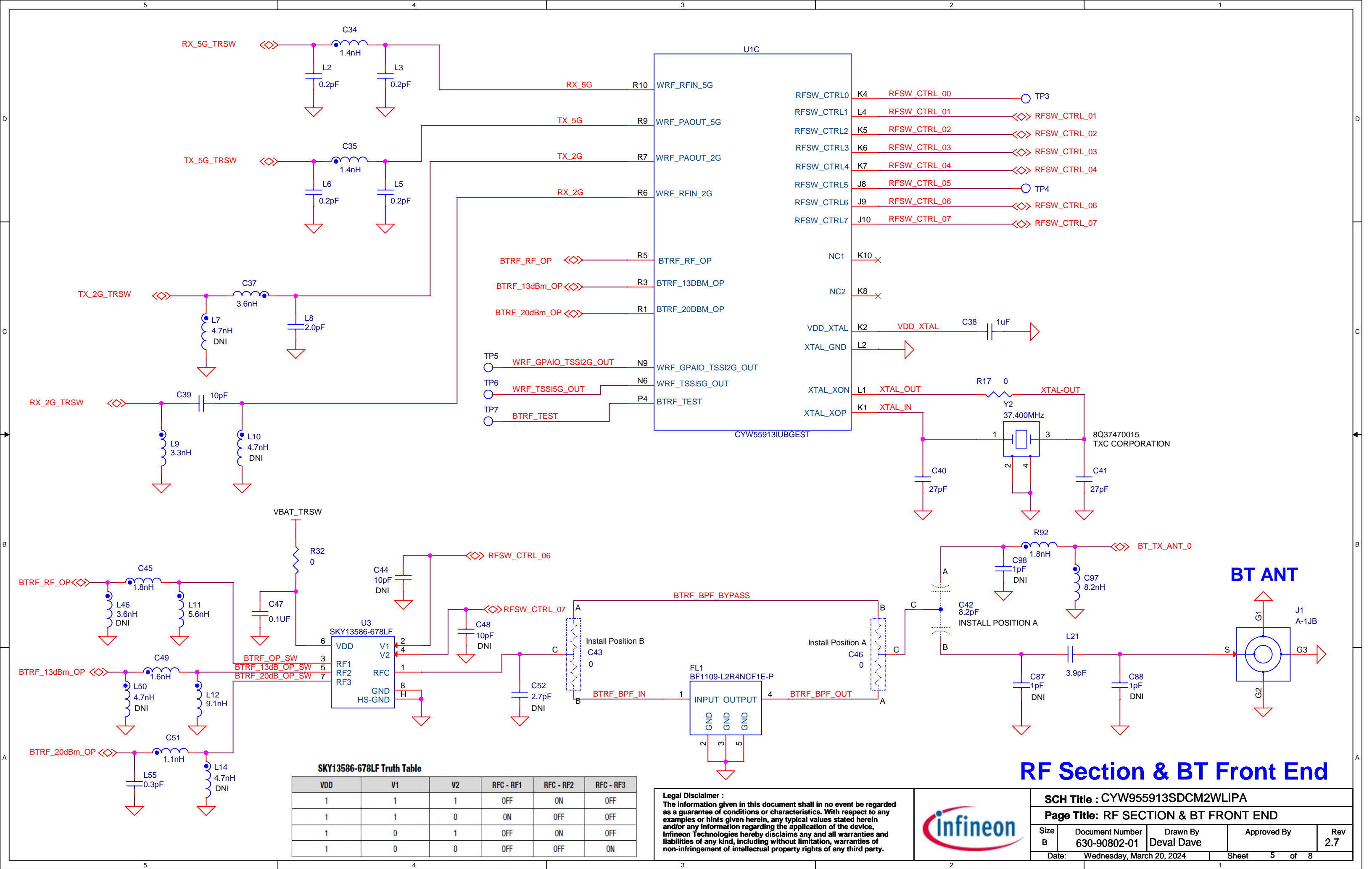
SCH Title : CYW955913SDCM2WLIPA

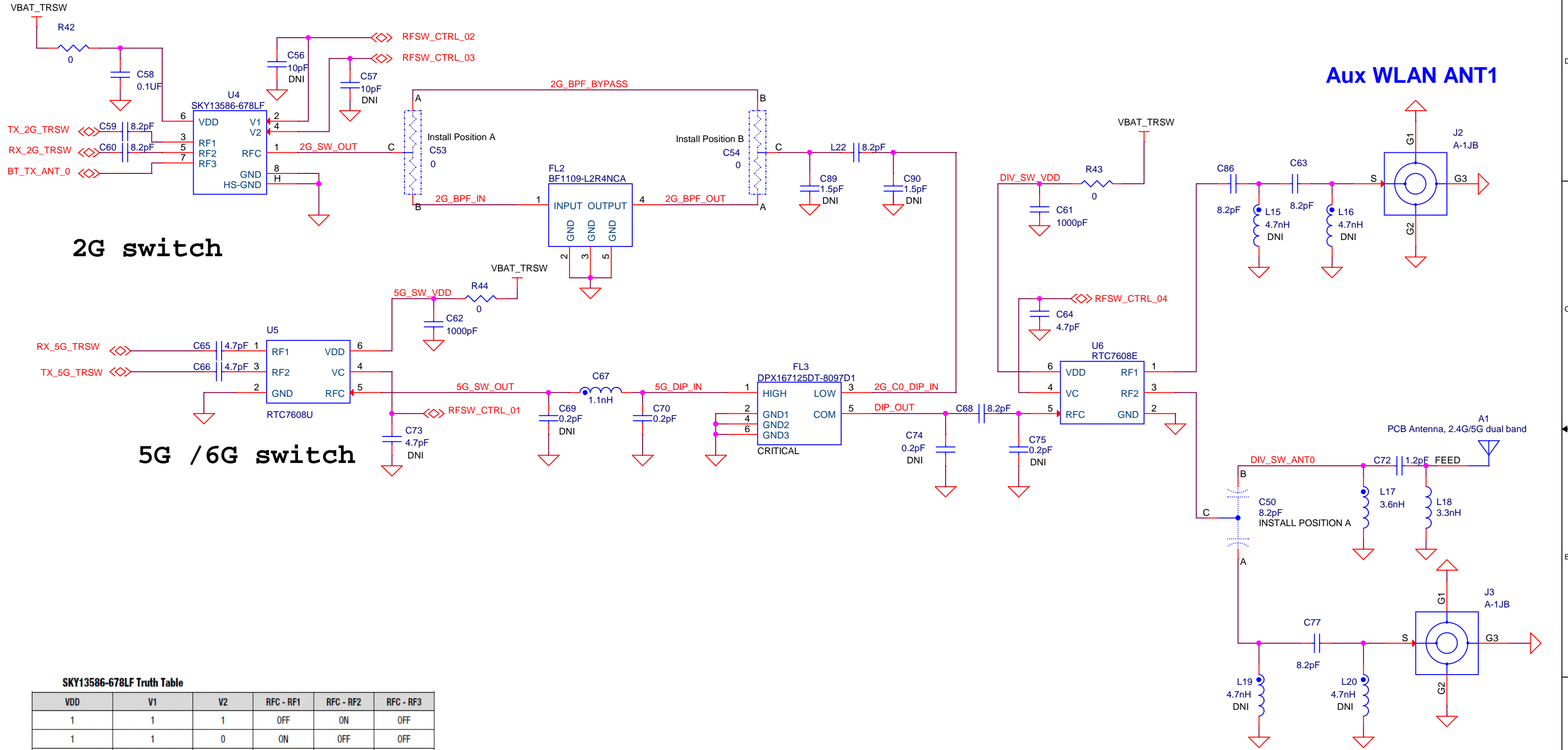
Page Title: SYSTEM SECTION 2

Size B	Document Number	Drawn By	Approved By	Rev
	630-90802-01	Deval Dave		2.7

Date: Wednesday, March 20, 2024

Sheet 4 of 8





2G switch

5G /6G switch

Aux WLAN ANT1

Main WLAN/BT ANT0

RF Front End

SKY13586-678LF Truth Table

VDD	V1	V2	RFC - RF1	RFC - RF2	RFC - RF3
1	1	1	OFF	ON	OFF
1	1	0	ON	OFF	OFF
1	0	1	OFF	ON	OFF
1	0	0	OFF	OFF	ON

RTC7608E Truth Table

Low Insertion Loss Path	VC
RFC - RF1	H
RFC - RF2	L

RTC7608U Truth Table

Low Insertion Loss Path	VC
RFC - RF1	H
RFC - RF2	L

Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.



eLPO_M2

R62

0

VBAT

C85
4.7uF

VBAT

R63

0

VBAT_M2

VBAT_M2

U12 M_2_card_2230-xx-E_ant

M.2 card, 2230-xx-E, w/ant

M2 Interface

Legal Disclaimer :

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.



SCH Title : CYW955913SDCM2WLIPA

Page Title: M2 INTERFACE

Size
B

Document Number
630-90802-01

Drawn By
Deval Dave

Approved By

Rev
2.7

Date: Wednesday, March 20, 2024

Sheet 7 of 8

REVISION HISTORY			
REV	DESCRIPTION OF CHANGE	Orig. of Change	DATE
1.0	Initial Release based on CYW955513SDCM2WLIPA Rev2.0	Brandon Isa	02/23/2023
2.0	C35 = 8.2pF, C34, C64, C65 = 4.7pF L5, L6, C69, C70 = DNI C50 = Install Position A U1 = 55913 A1 part (Ballmap Rev2.6) FL2 and 2G_BPF_Bypass path added on 2G path. FL1 and BTRF_BPF_Bypass path added on BT path. U2 - QSPI FLASH Populated U15 - PSRAM Added	Deval Dave	07/27/2023
2.5	Front-End Configration updates for WLAN and BT sections	Deval Dave	11/28/2023
2.6	Populate R82, R86, R87, R88, R89, R91 = 0 ohms	Deval Dave	01/24/2024
2.7	Populate R28, R90 = 33 ohms	Deval Dave	02/21/2024

Revision History