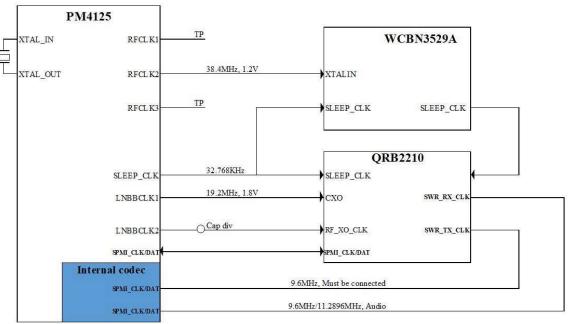
## **VERSION HISTORY**

## IMOLA REFERENCE DESIGN FOR ARDUINO

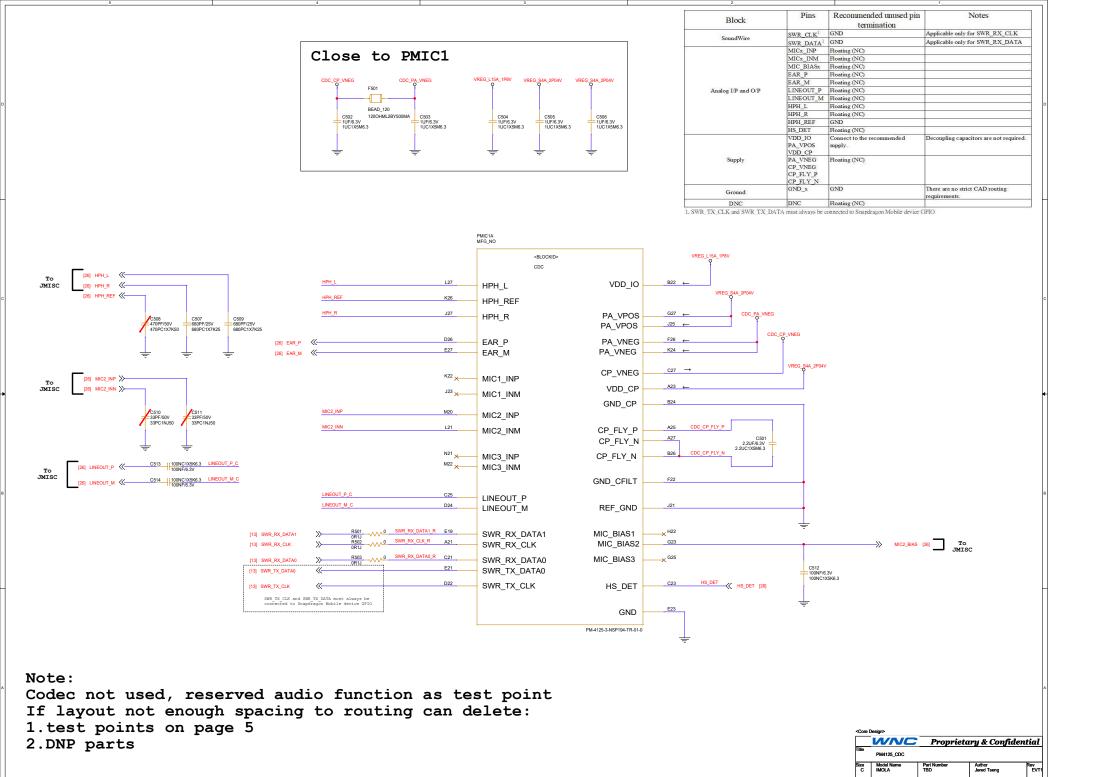
VER#	DATE	DESCRIPTION OF CHANGES	AUTHOR
	02/Apr./2025	RFQ version	Wistron NeWeb Corporation (WNC)
	18/Apr./2025	RFQ version V2	
	9/Jun./2025	ENG version	
	30/Jun./2025	ENG version V2	

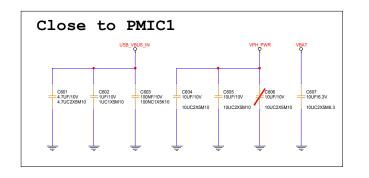
WNC		Proprietary & Confidential		
Title	VERSION HISTORY			
Size	Model Name	Part Number 55DMVQAD1.SG1	Author Jared Tsena	Rev

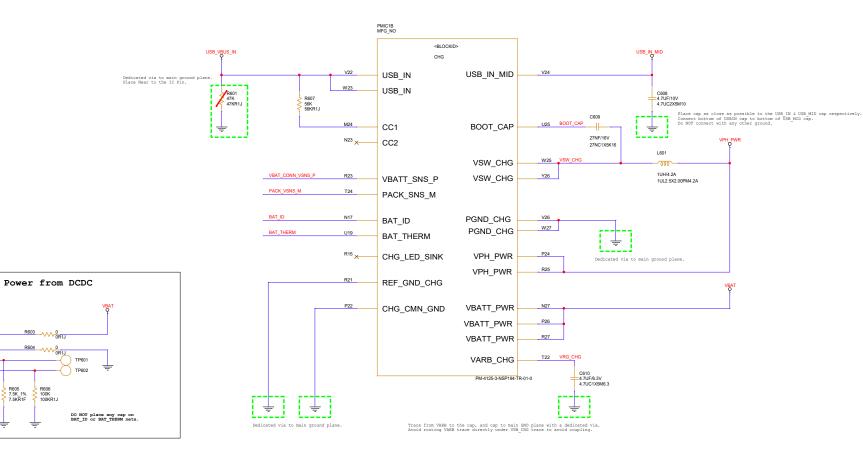
## **SoC Clock Block Diagram**







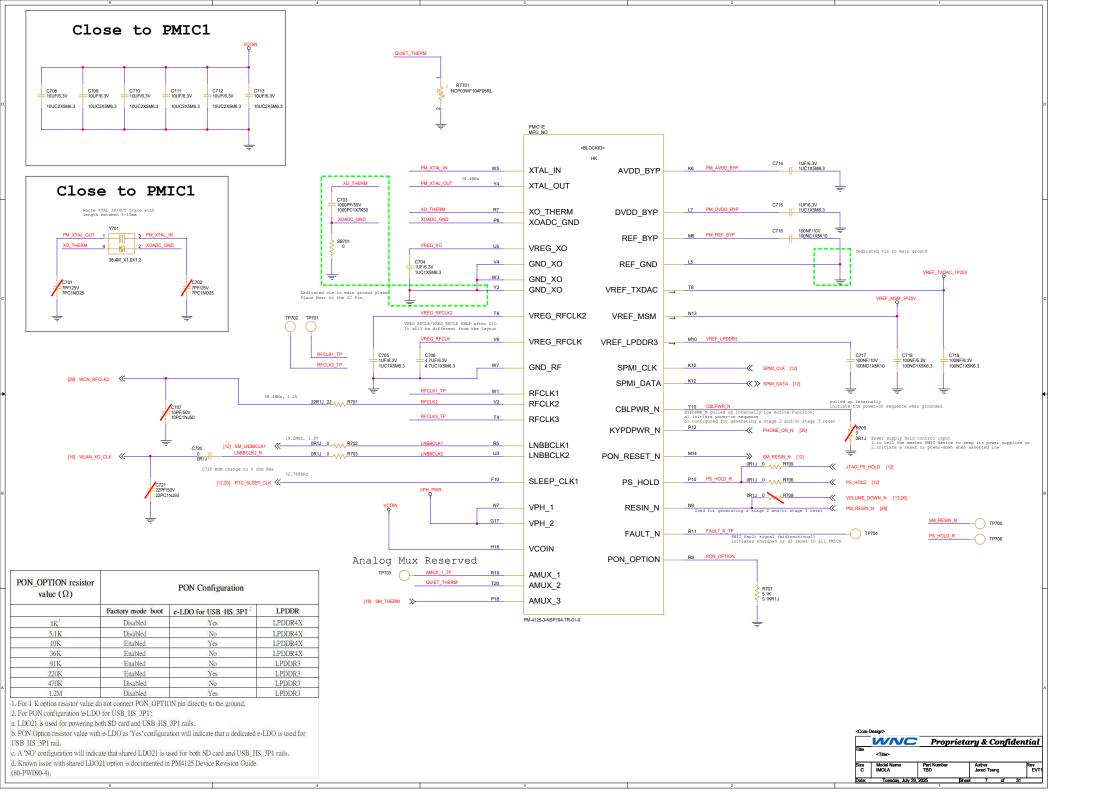


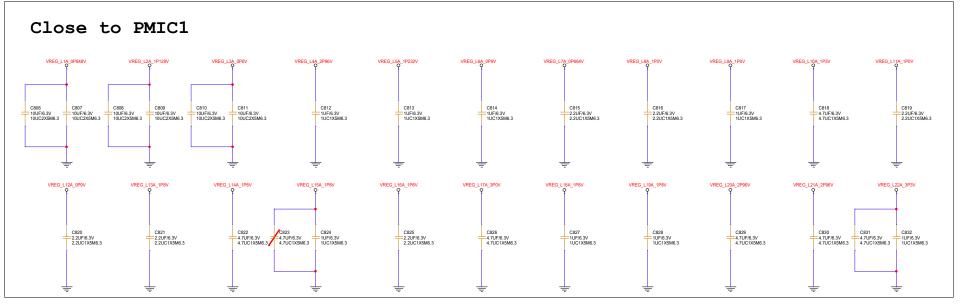


VVVC Proprietary & Confidential

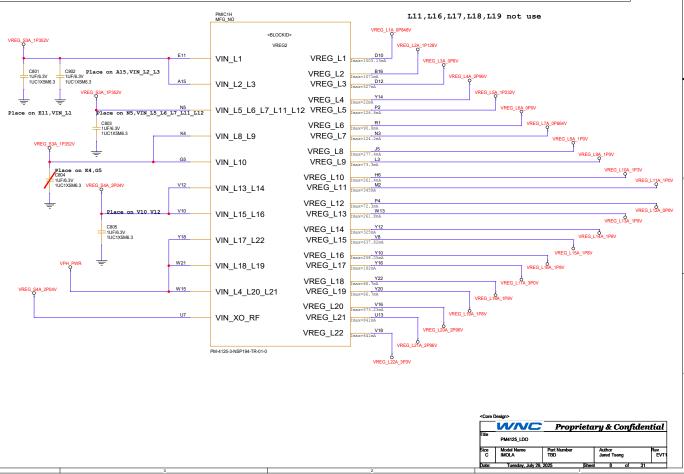
VBAT\_CONN\_VSNS\_P

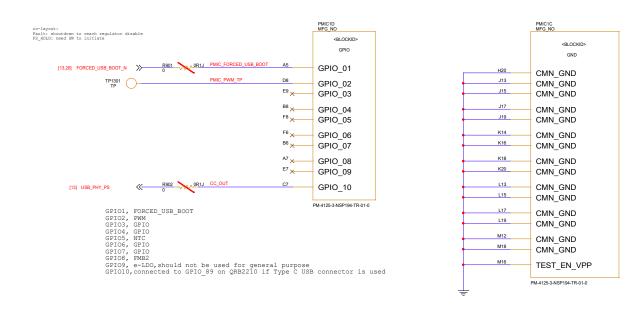
R603 0 0R1J

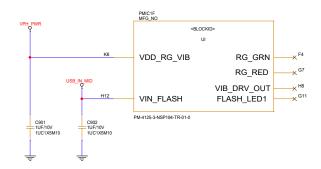




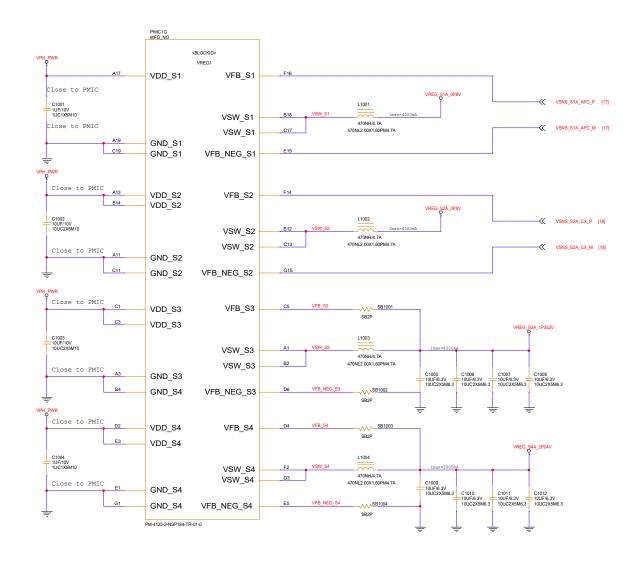








I<sub>RATED</sub> Default on booting Nominal Programmable Default Slppe Expected use(SM4125/QCS2 Regulator | Circuit type 290/QCM2290) voltage (V) voltage (V) range (V) state 0.8 OFF APC0 0.728 0.72-0.99 SMPS FTS512 S2 4500 1.076 0.8 0.4-1.09 VDD\_Cx Lowered **SMPS** FTS512 LV sub S3 4000 1.408 1.408 0.4-1.662 Lowered SMPS regulation FTS512 MV sub S4 3000 1.10-2.35 2.072 2.072 Lowered regulation



Note:

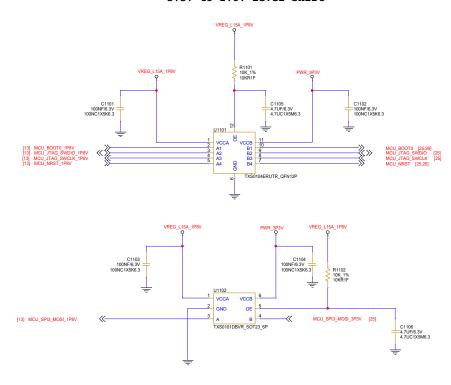
Place Cap as close to PMIC as possible,

requirement:

-Loop inductance from (VIN\_Sx to Cin + Cin to GND\_Sx) must be < 3nH

	WNC	Proprie	tary & Confid	lential
Title	PM4125_VREG			
Size	Model Name IMOLA	Part Number TRD	Author Jared Tseng	Rev

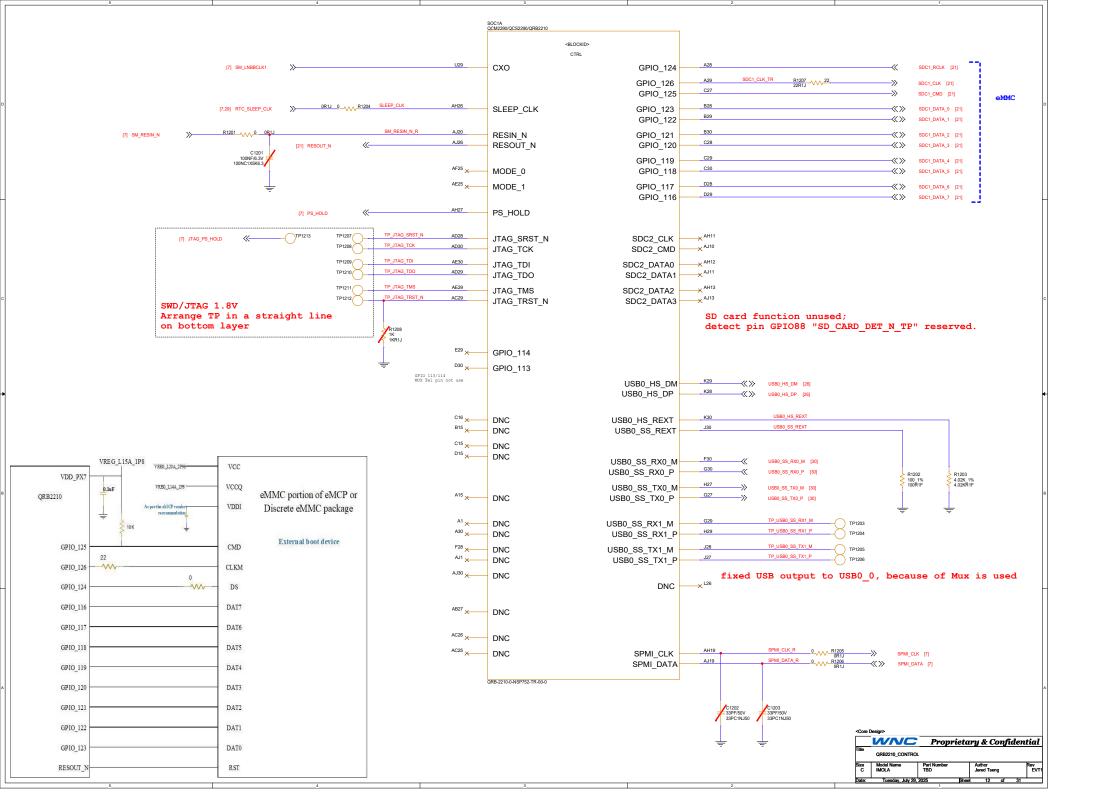
## 3.3V to 1.8V level shift

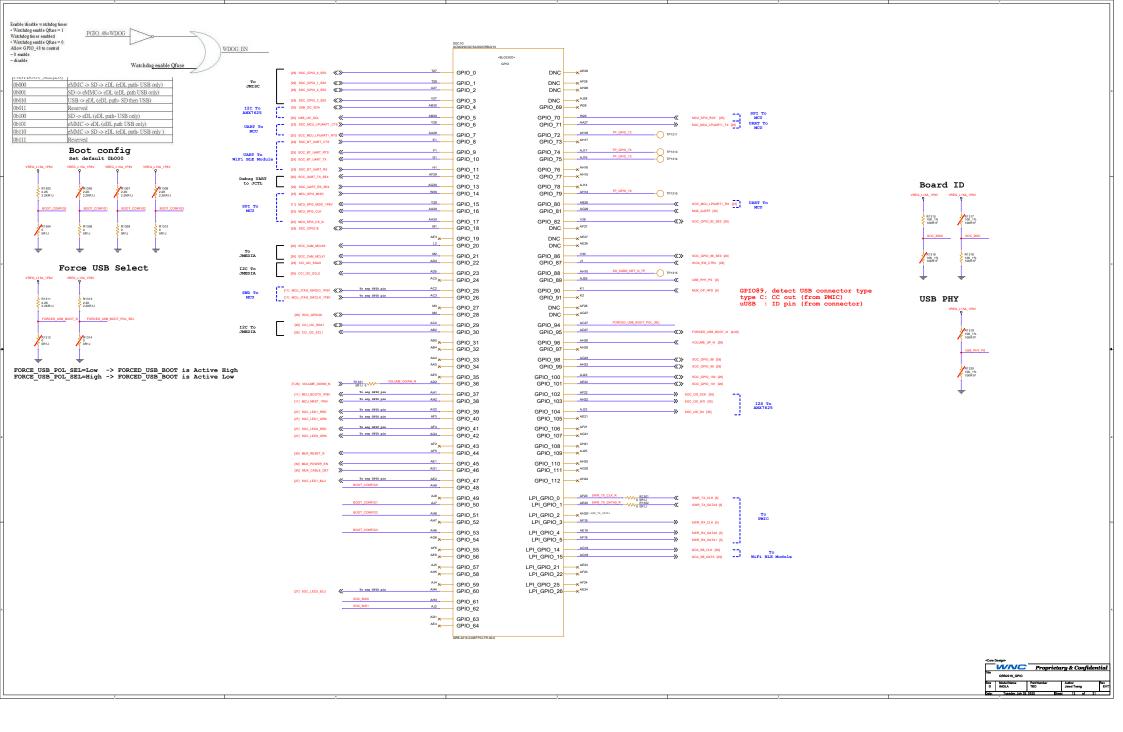


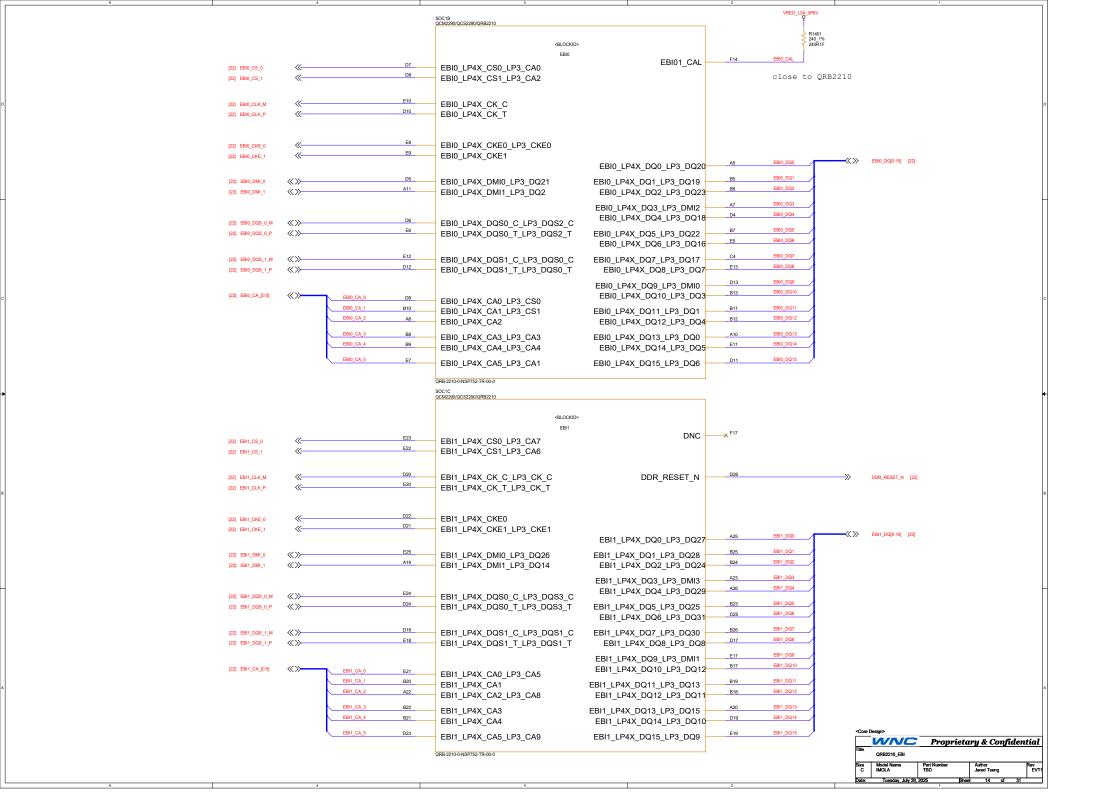
Com Design>
Proprietary & Confidential

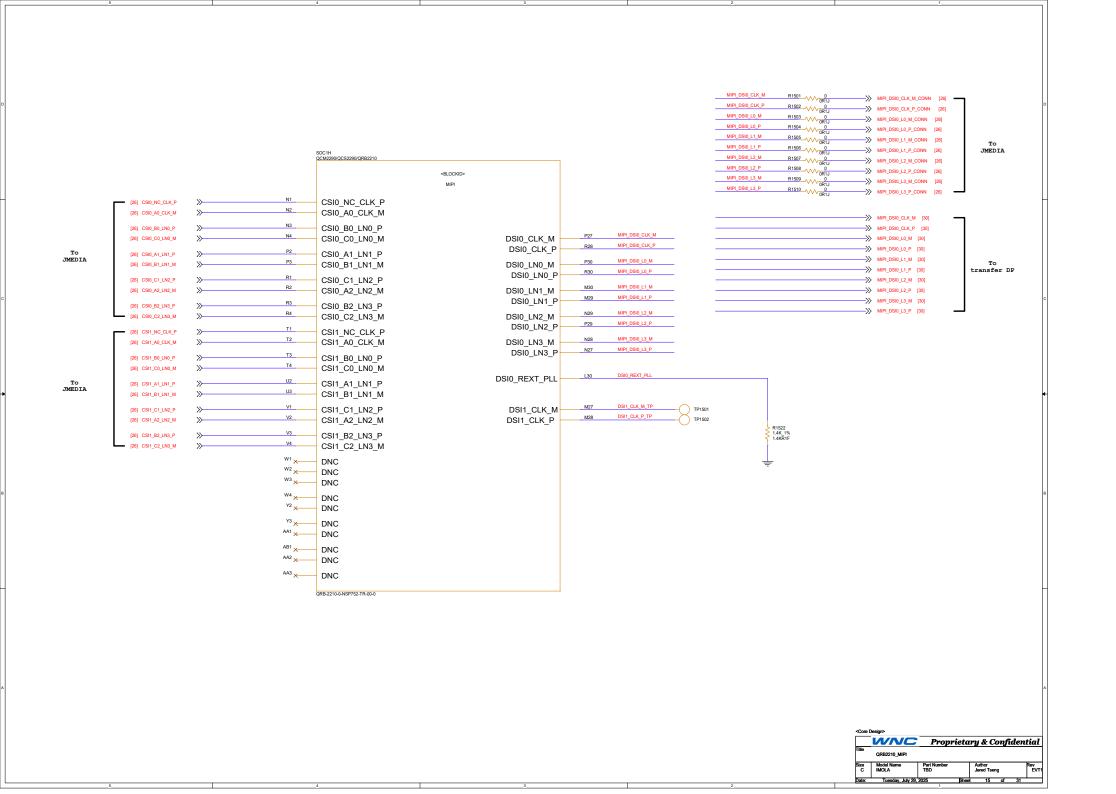
Title
LEVEL SHIFT

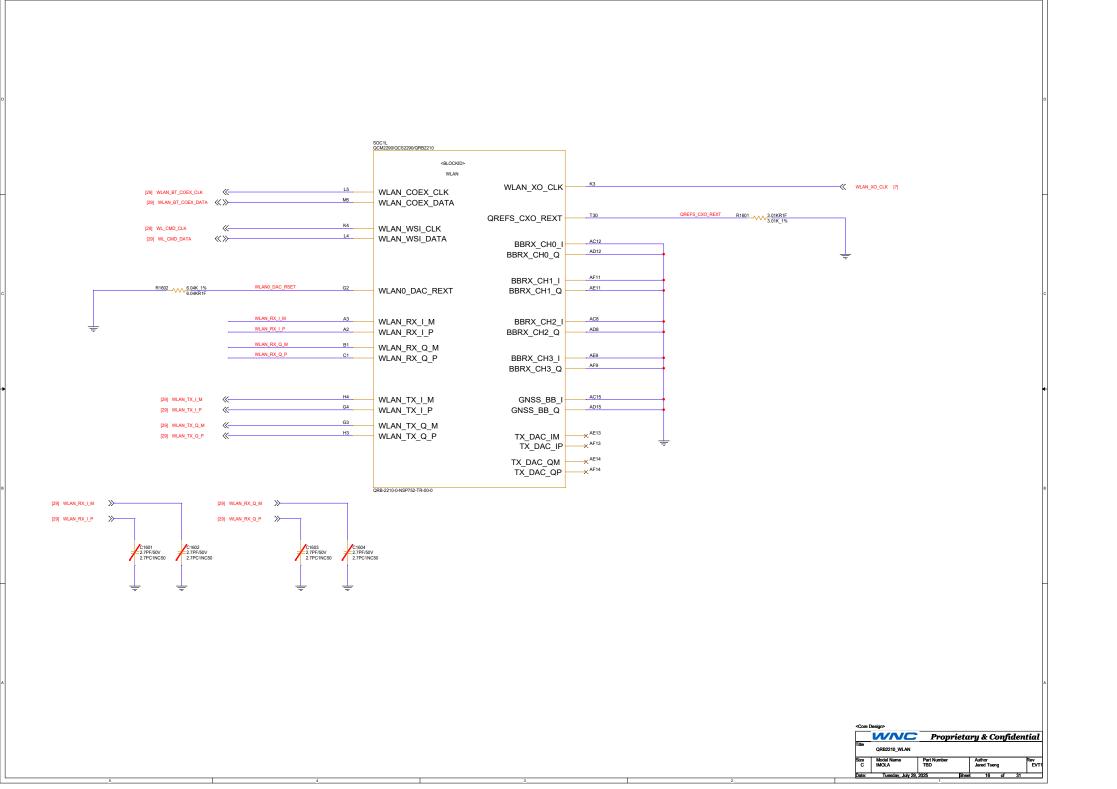
Sze Model Name Part Number Aufhor
C MACIA TBD Jarred Tseng EVT

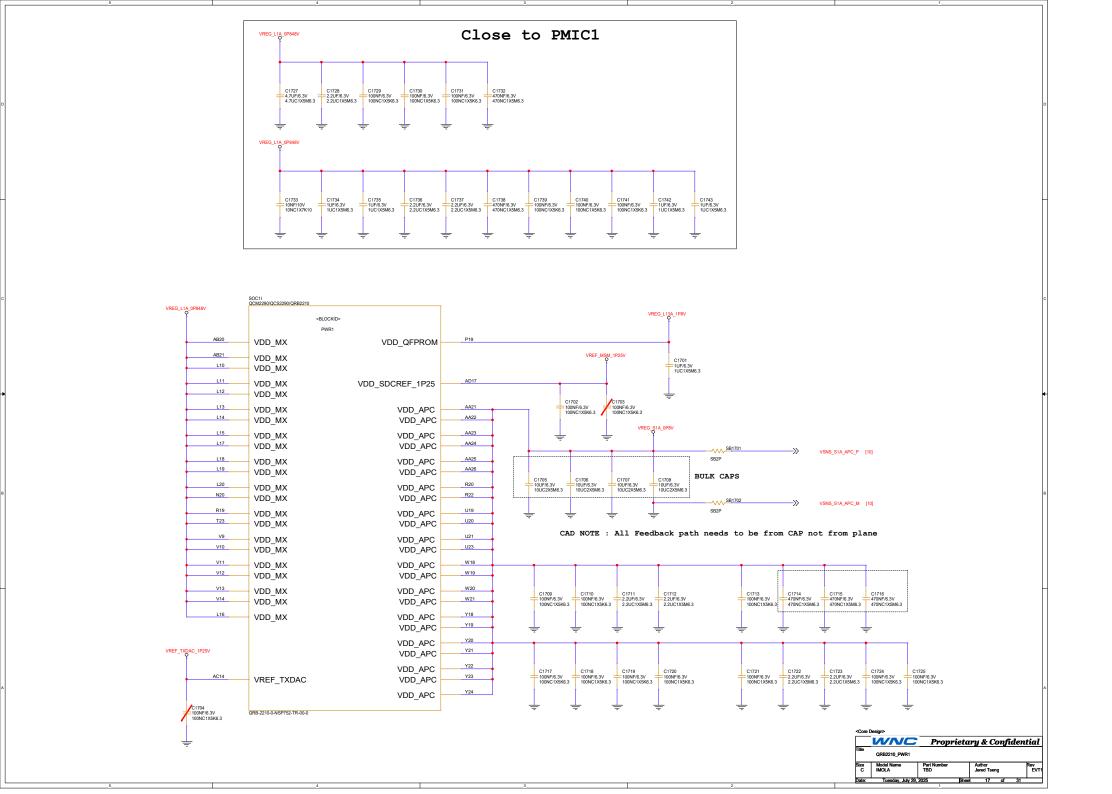


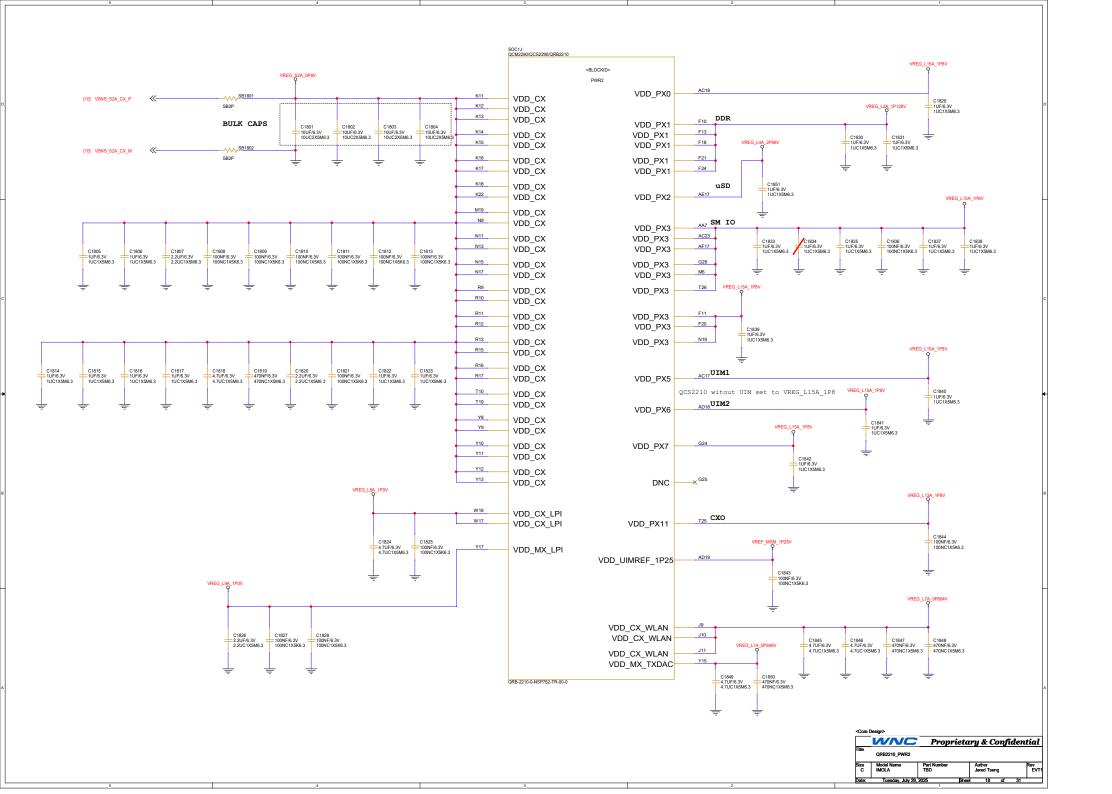


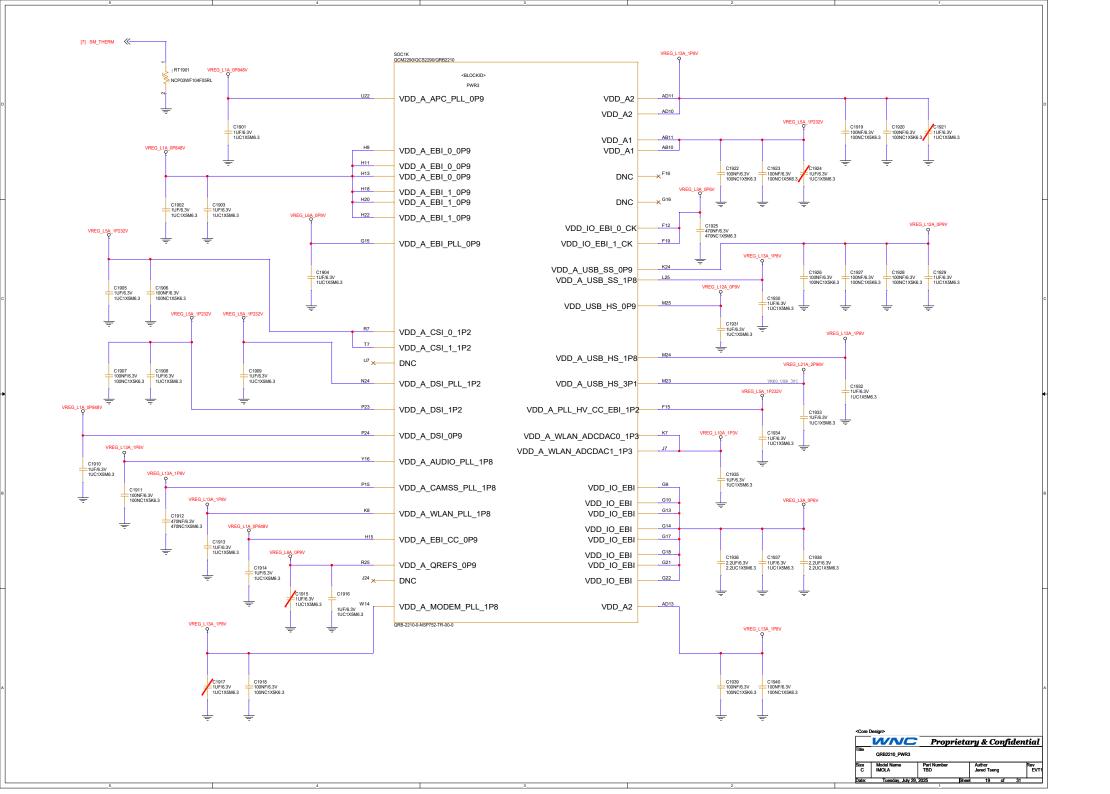


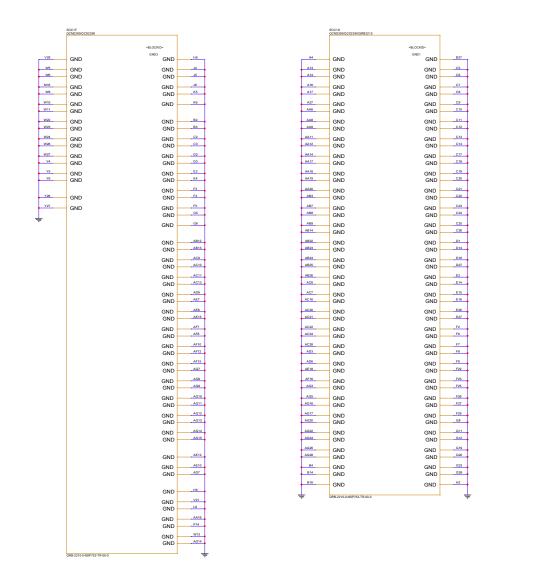


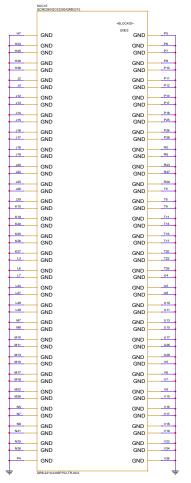




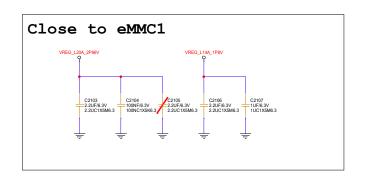


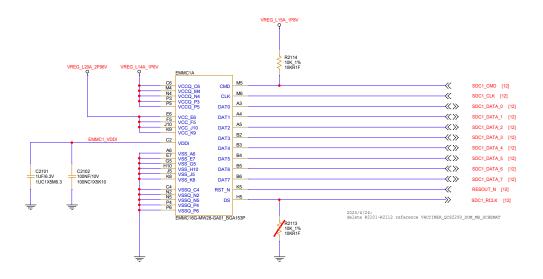


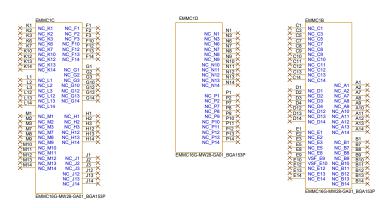












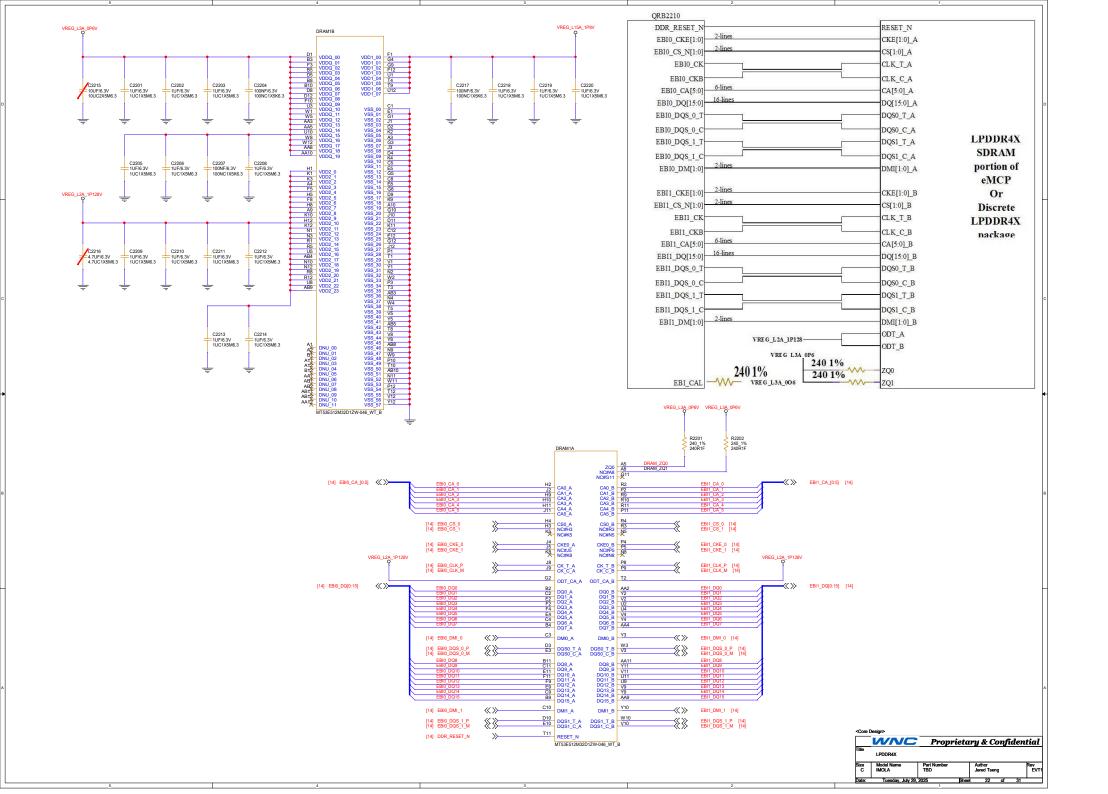
2025/6/16 change to KINGSTON EMMC16G-MW28-GA01

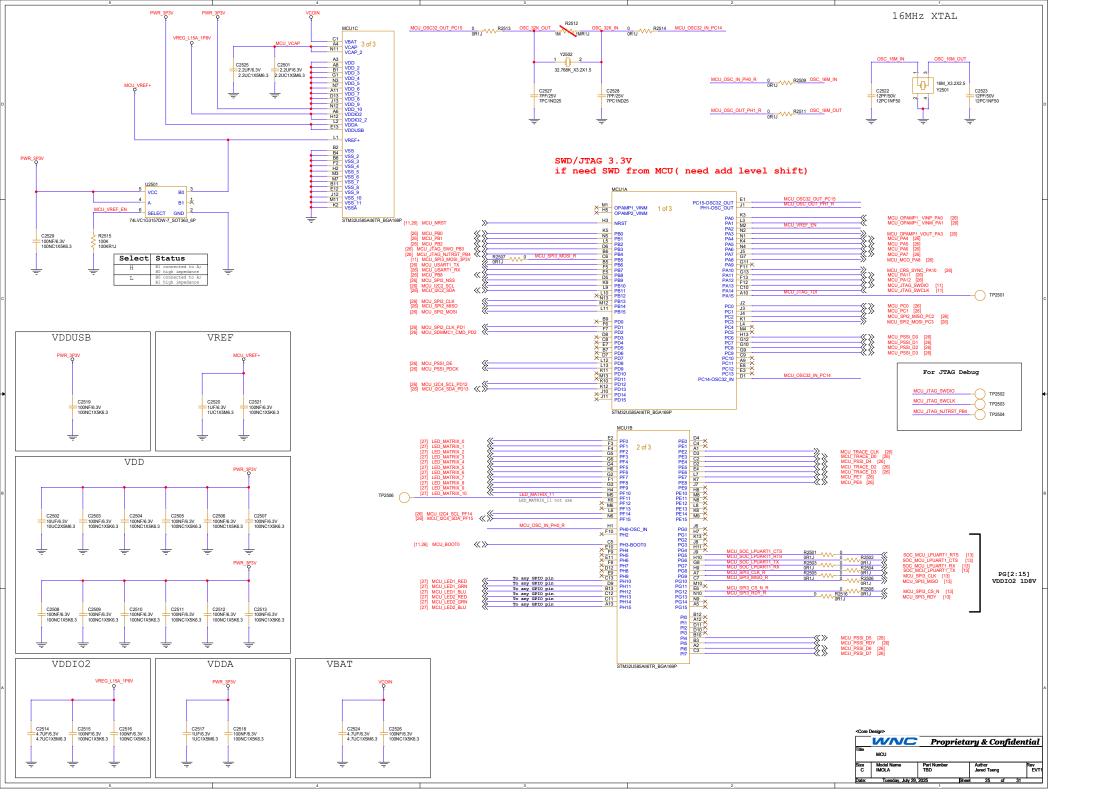
 
 V/V
 Proprietary & Confidential

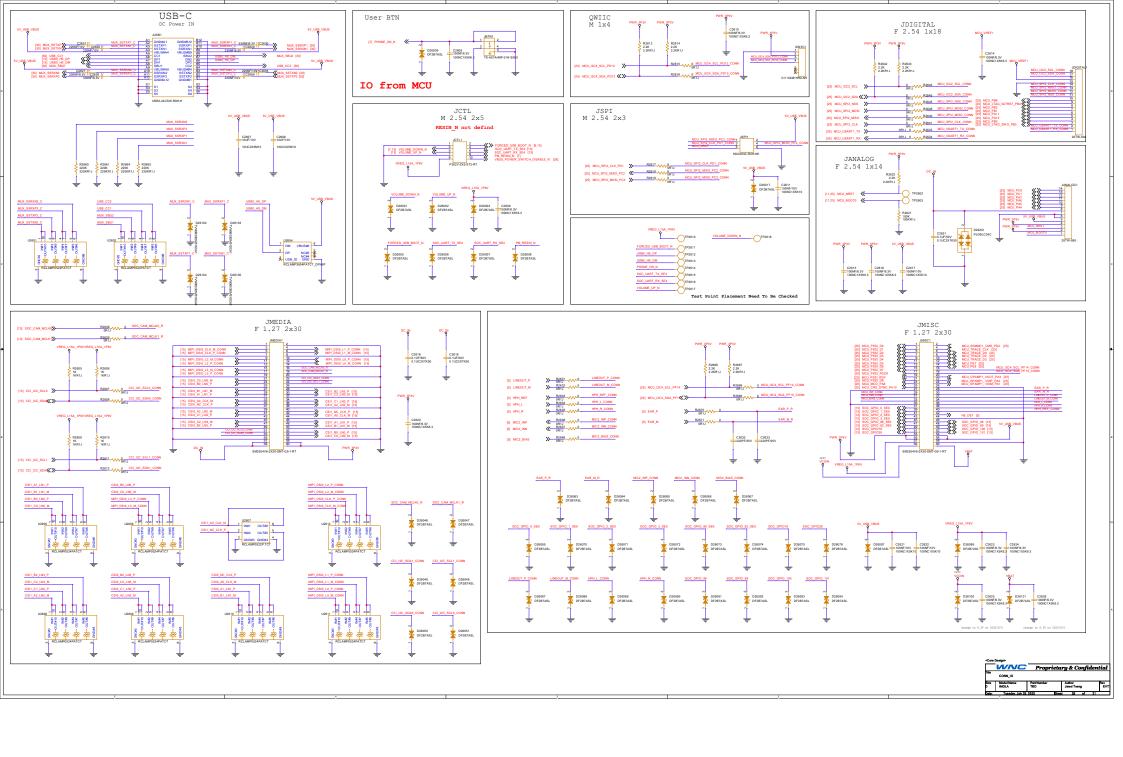
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 eMMC

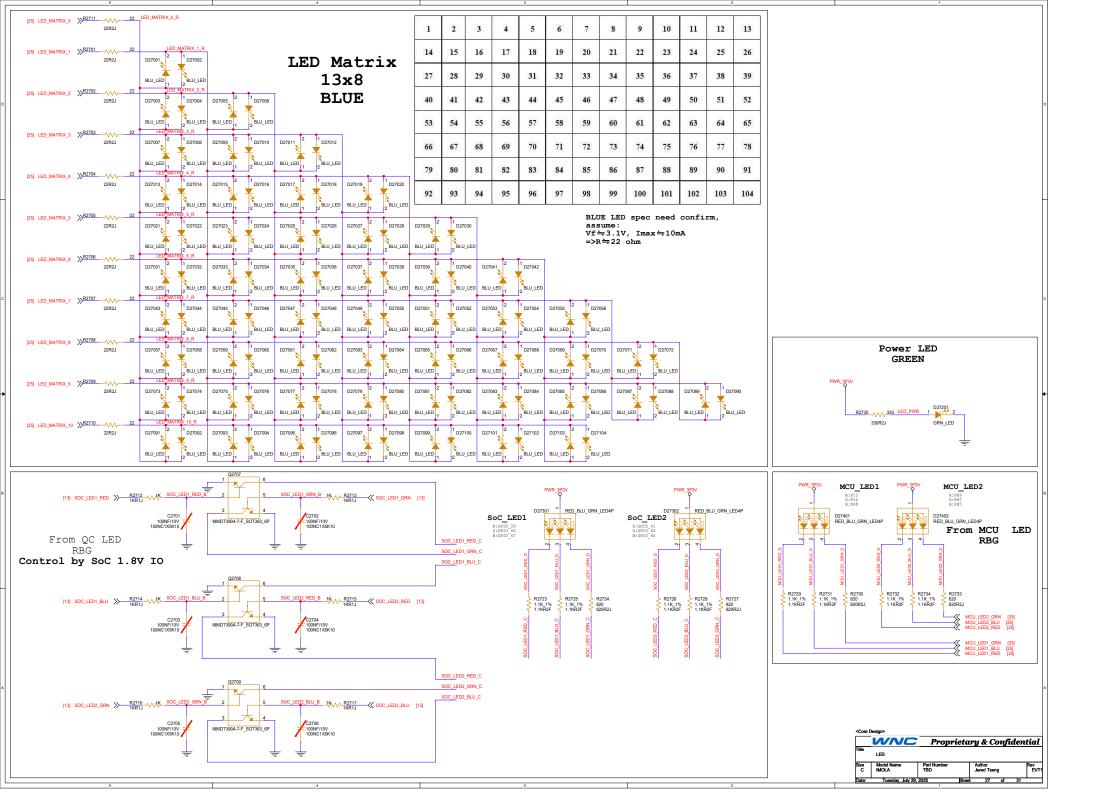
 Size
 Model Name
 Part Number
 Author

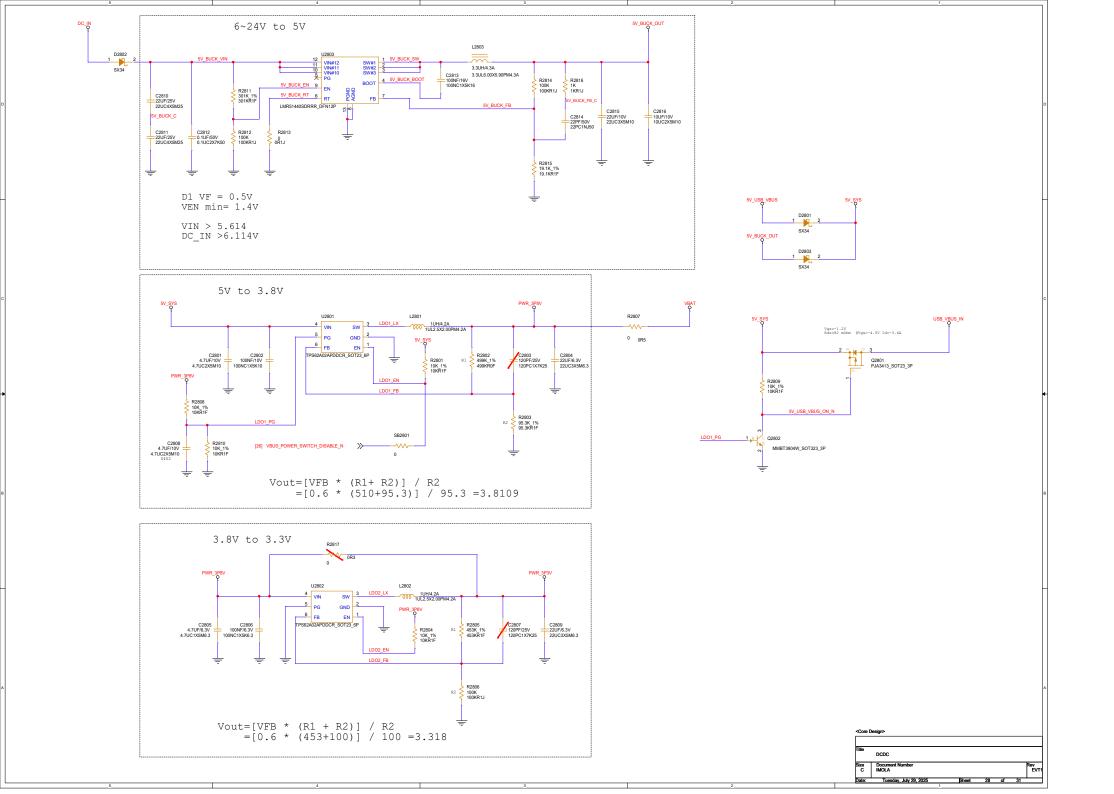
 C
 IMOLA
 TBD
 Jared Tenng
 Rev Jered Tenng

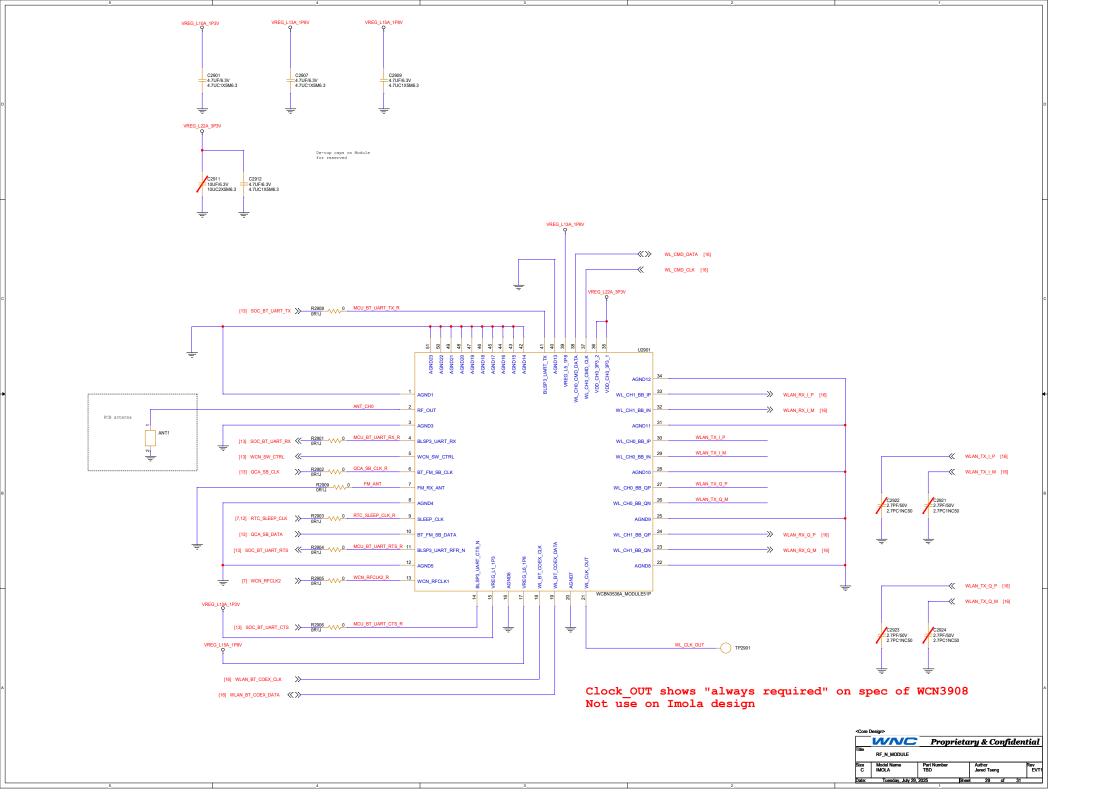


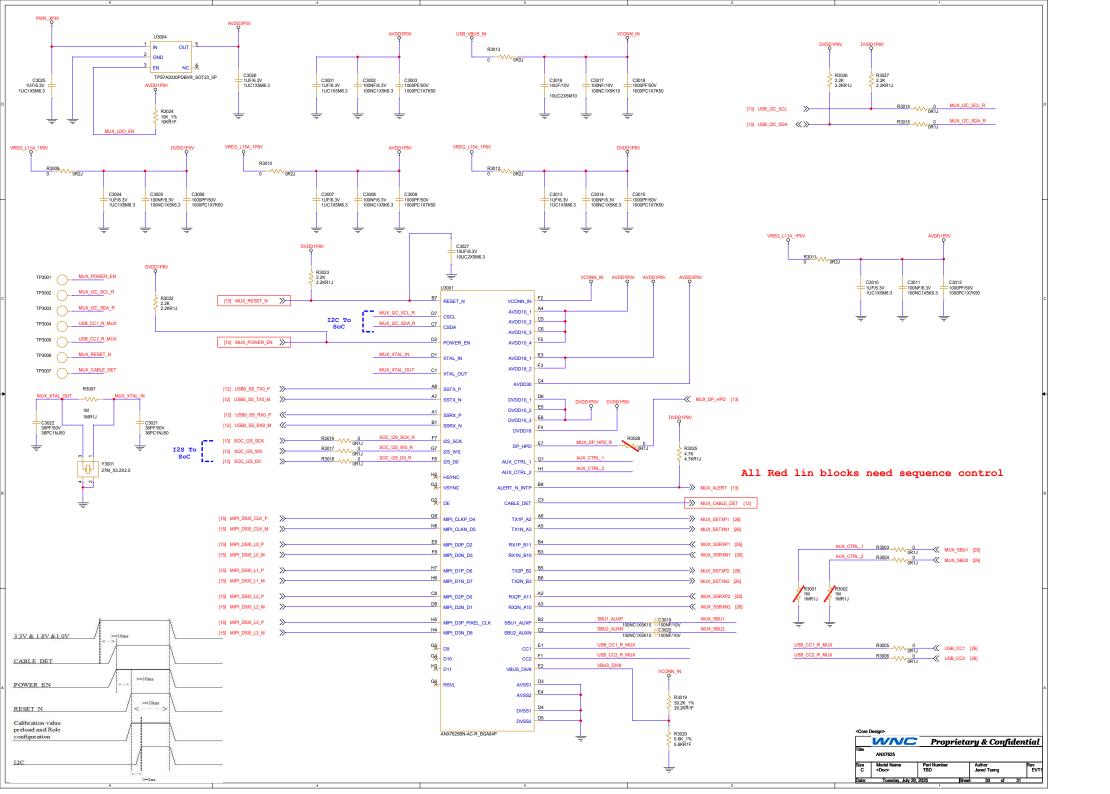












Date	Version	Modifed by	Change notice
2025/6/30	EVT2	Jared	Imola schematic change list 20250630.xlsx

 Core Design>

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 Title
 CHANGE LIST

 Size
 Model Name
 Part Number
 Author

 C
 Jarred Tseng
 EVT

 Distor
 Toseday, July 29, 2025
 Sheet
 31
 of
 31