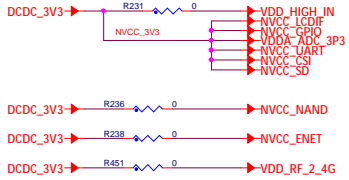
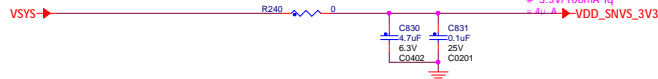


i.MX6ULL PWR

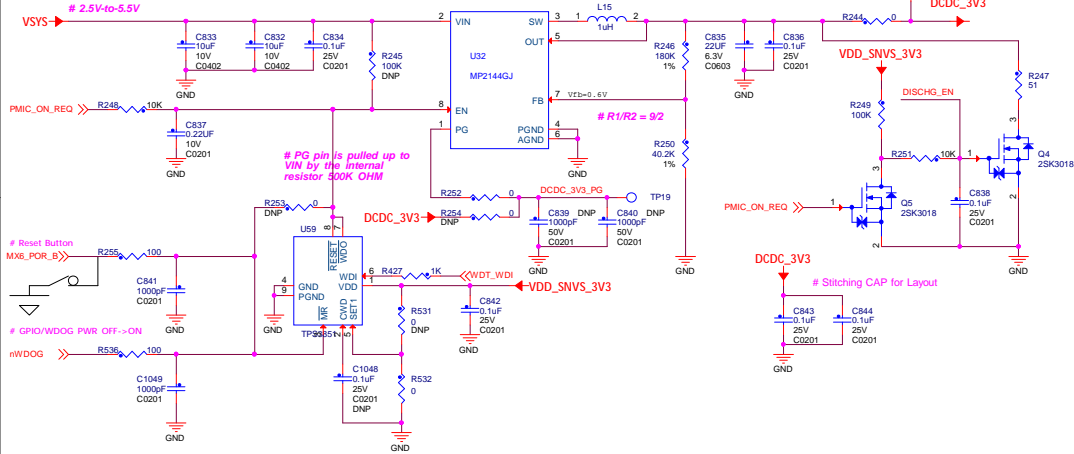
Power Rail	MIN	TYP	MAX	CURR
VDD_SNVS_IN	2.4	3	3.6	276mA
VDD_HIGH_IN	2.8	3	3.6	125mA
VDD_ARM_IN	0.9	1.275	1.5	400mA
VDD_SOC_IN	0.9	1.275	1.5	500mA
NVCC_DRAM	1.425	1.5	1.575	50mA
	1.283	1.35	1.45	
	1.14	1.2	1.3	
NVCC_XXX	1.65	1.8/2.5/3.3	3.6	
VDDA_ADC_3P3	3	3.3	3.6	
USB_OTG1_VBUS	4.4	5	5.25	50mA
USB_OTG2_VBUS				



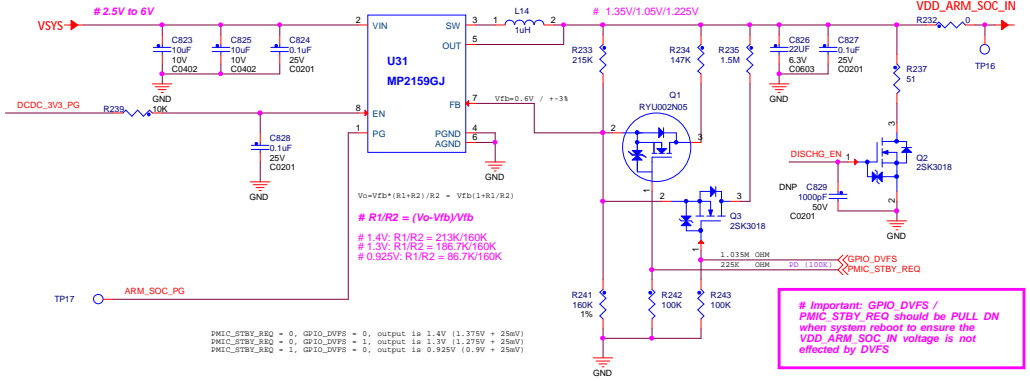
SNVS



VDDHIGH / NVCC_XXX



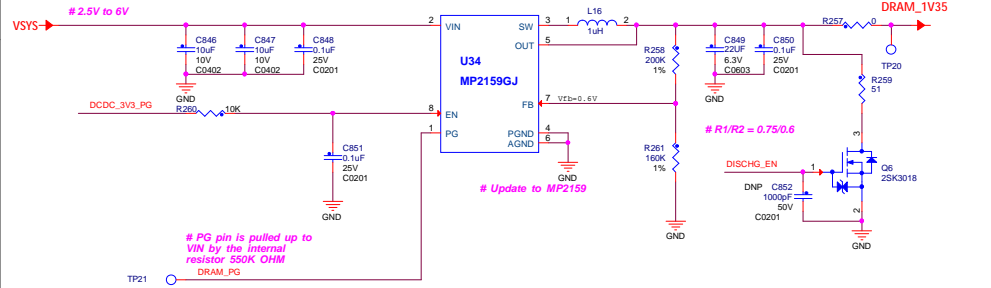
ARM/SOC



$V_o = V_{fb} * (R1+R2) / R2 = V_{fb} * (1+R1/R2)$
 $R1/R2 = (V_o - V_{fb}) / V_{fb}$
 # 1.4V: R1/R2 = 21.9K/160K
 # 1.2V: R1/R2 = 186.7K/160K
 # 0.925V: R1/R2 = 86.7K/160K

Important: GPIO_DVFS / PMIC_STBY_REQ should be PULL DN when system reboot to ensure the VDD_ARM_SOC_IN voltage is not effected by DVFS

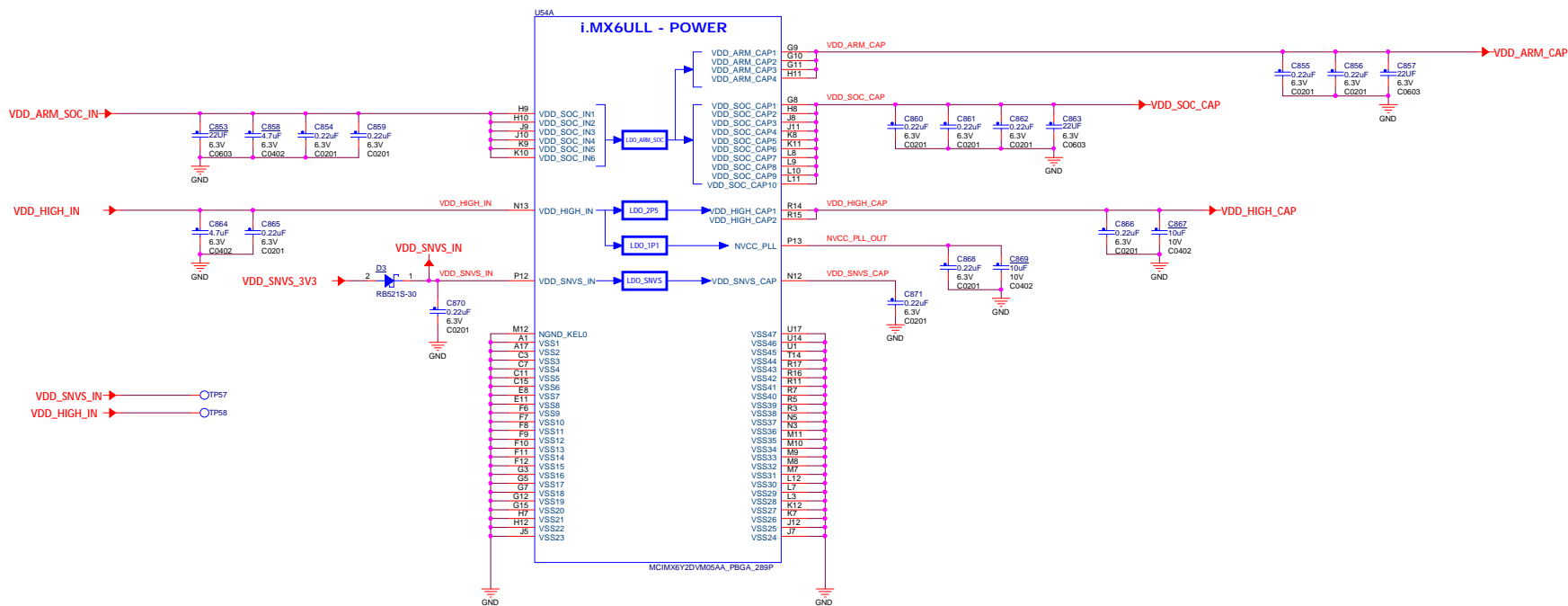
LvDDR3



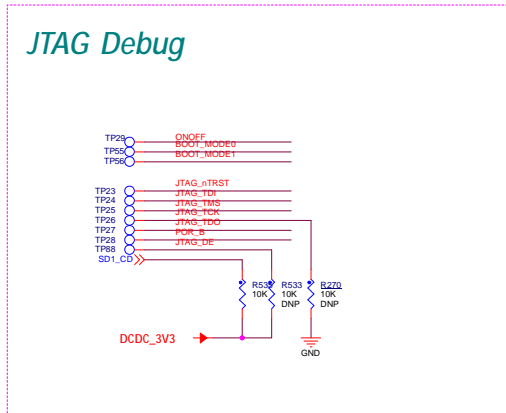
NXP

ICAP Classification: CP IUD: X PUBL:
 Drawing Title: **MCIMX6ULL-CM**
 Page Title: **PWR MGR**
 Document Number: SCH-29364 PDF: SPF-29364
 Date: Thursday, December 21, 2017 | Sheet 4 of 18

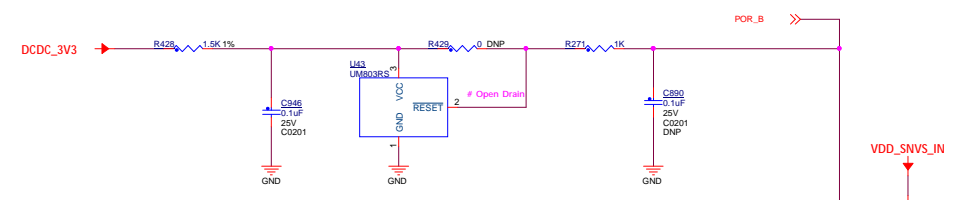
i.MX6ULL PWR



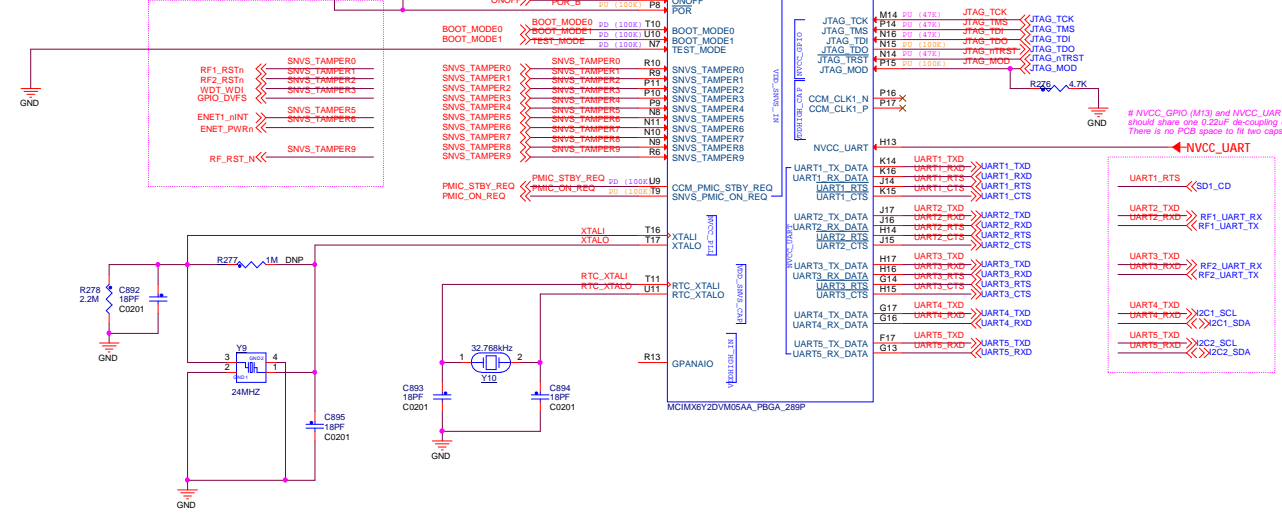
ICAP Classification: CP IUD: X PUBI:		
Drawing Title: MCIMX6ULL-CM		
Page Title: CPU PWR		
Size C	Document Number SCH-29364 PDF: SPF-29364	Rev A
Date: Friday, December 15, 2017	Sheet 6 of 16	



i.MX6ULL RESET



i.MX6ULL - CONTROL



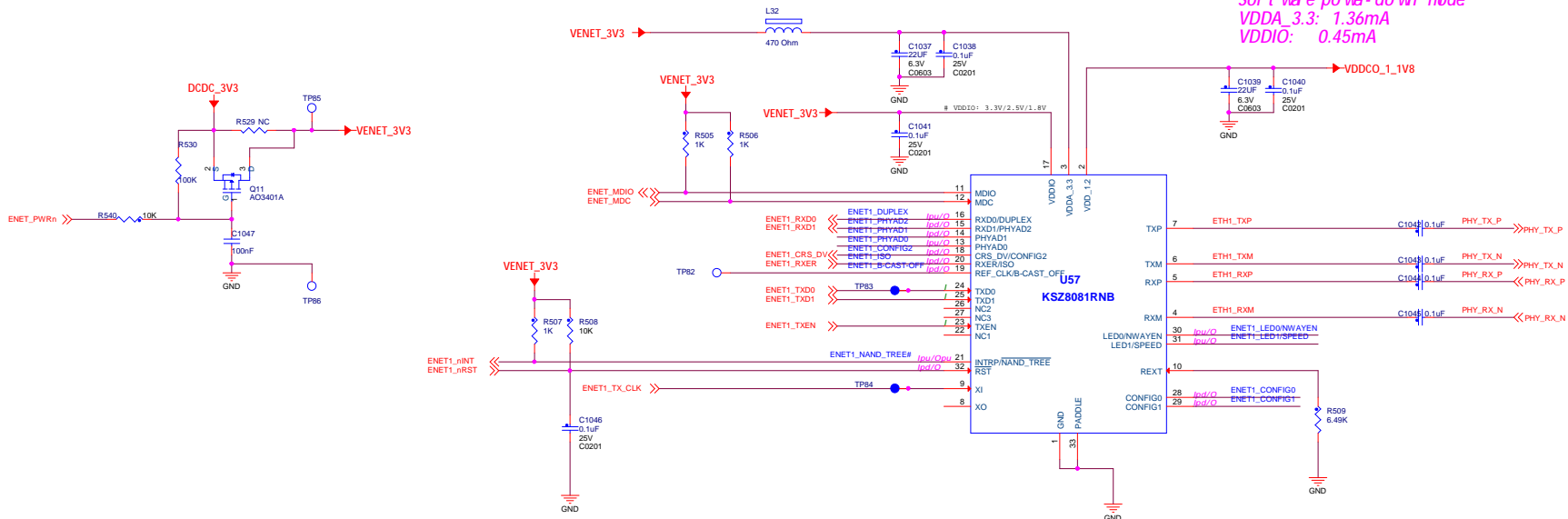
8 NVCC_GPIO (M13) and NVCC_UART (L13) should share one 0.22uF de-coupling cap. There is no PCB space to fit two caps.



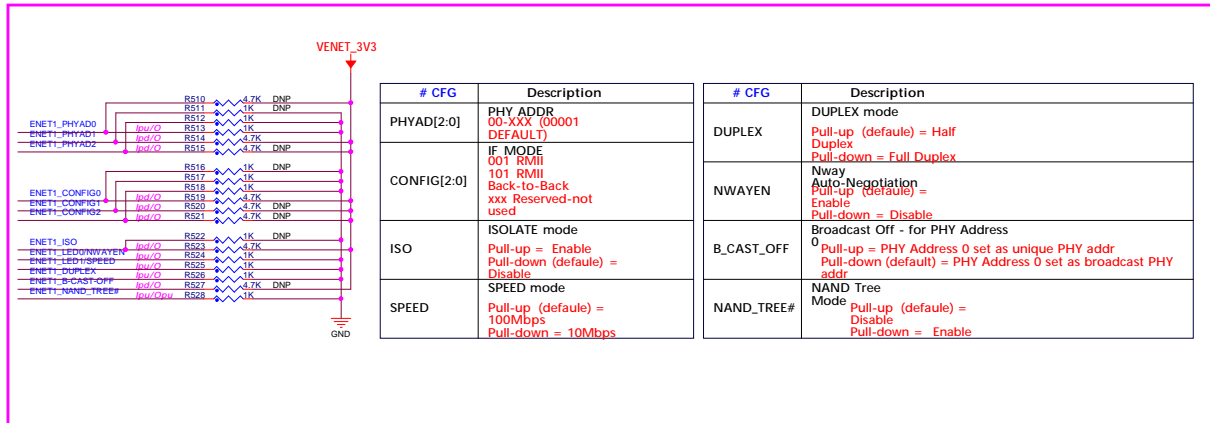
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Drawing Title: MCIMX6ULL-CM					
Page Title: CPU PERI x2					
Doc Number	SCH-29364 PDF: SPF-29364		Rev	A	
Date:	Friday, December 15, 2017	Sheet	7	of	18

100M ETHERNET RMII PHY x1

ENET_MDIO	ENET_MDIO
ENET_MDC	ENET_MDC
ENET1_RXD0	ENET1_RXD0
ENET1_RXD1	ENET1_RXD1
ENET1_TXEN	ENET1_TXEN
ENET1_TX_CLK	ENET1_TX_CLK
ENET1_RXD0	ENET1_RXD0
ENET1_RXD1	ENET1_RXD1
ENET1_RXER	ENET1_RXER
ENET1_CRS_DV	ENET1_CRS_DV
ENET1_MINT	ENET1_MINT
ENET1_RST	ENET1_RST

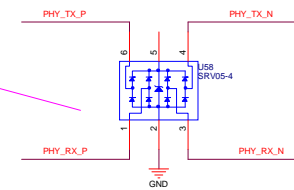


RMII CFG



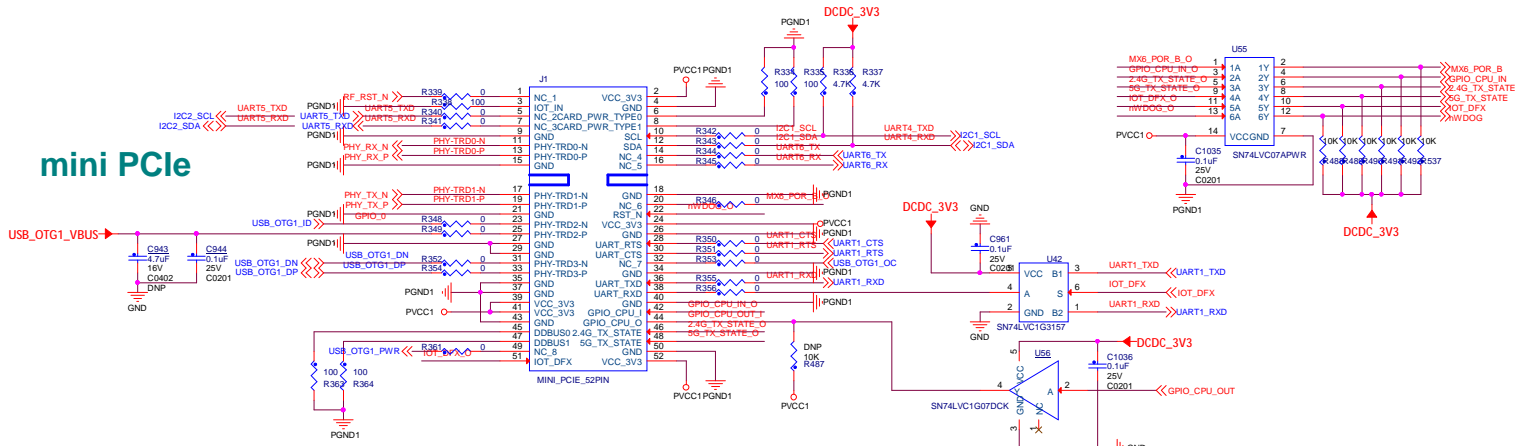
ESD PROTECTION

2nd LEVEL ESD



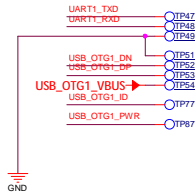
ICAP Classification: CP IUD: X PUBI:	
Drawing Title: MCIMX6UL-BB	
Page Title: ENET x1	
Size C	Document Number SCH-28616 PDF: SPF-28616
Date: Thursday, December 21, 2017	Sheet 10 of 18

mini PCIe

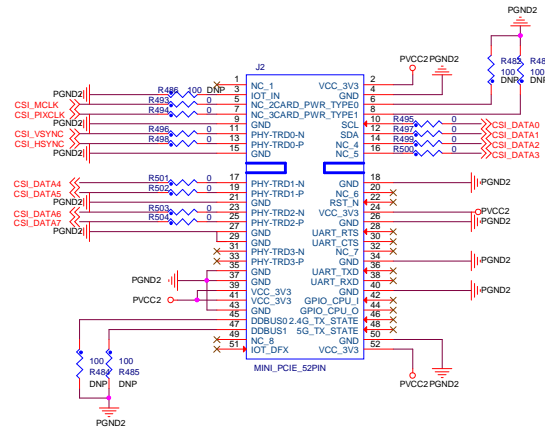
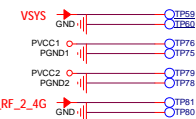


TP for mini PCIe

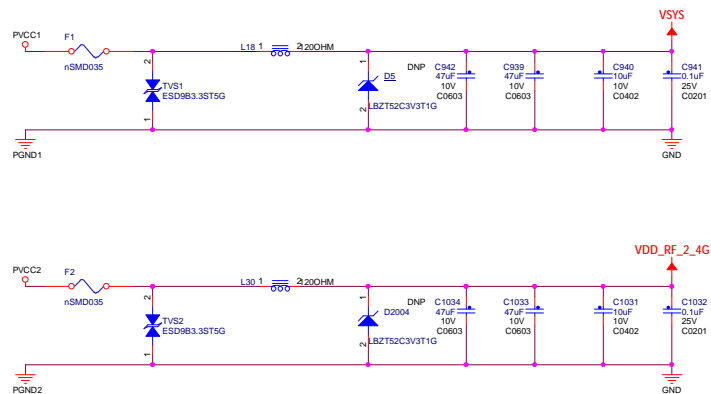
CPU SODIMM TST/DBG



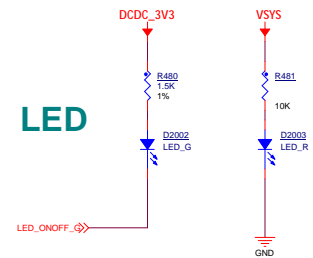
BMOD TP for MFG TOOL



POWER



LED



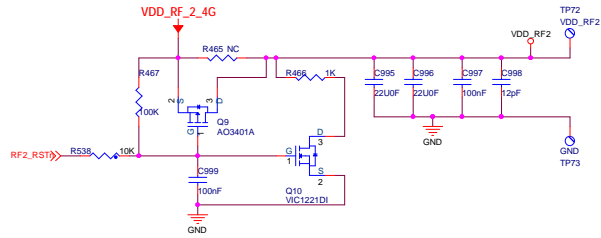
ICAP Classification: CP		IUD: X		PUBI:	
Drawing Title: MCIMX6ULL-CM					
Page Title: CPU-SODIMM200					
Size C	Document Number	SCH-29364 PDF: SPF-29364		Rev	A
Date: Monday, December 18, 2017		Sheet 11		of 16	

FUSE MAP <Default: QSPI BOOT>

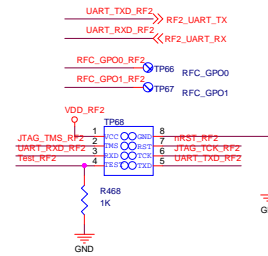
TYPE	BOOT_CFG1[7]	BOOT_CFG1[6]	BOOT_CFG1[5]	BOOT_CFG1[4]	BOOT_CFG1[3]	BOOT_CFG1[2]	BOOT_CFG1[1]	BOOT_CFG1[0]
QSPI	0	0	0	1	Reserved	Reserved	Reserved	Reserved
WEIM	0	0	0	0	Memory Type: 0 - NOR Flash 1 - OneNAND	Reserved	Reserved	Reserved
Serial-ROM	0	0	1	1	Reserved	Reserved	Reserved	Reserved
SD/eSD	0	1	0	Fast Boot: 0 - Regular 1 - Fast Boot	SD/eSD Speed 00 - Normal/SDR12 01 - High/SDR25 10 - SDR50 11 - SDR104	SD Power Cycle Enable 0 - No power cycle 1 - Enabled via USDMC_RST pad (USDMC3 & 4 only)	SD Loopback Clock Source 0 - Through SD pad 1 - direct	Reserved
MMC/eMMC	0	1	1	Fast Boot: 0 - Regular 1 - Fast Boot	SD/MMC Speed 0 - High 1 - Normal	Fast Boot Acknowledge 0 - Boot Ack Enabled 1 - Boot Ack Disabled	SD Power Cycle Enable 0 - No power cycle 1 - Enabled via USDMC_RST pad (USDMC3 & 4 only)	SD Loopback Clock Source 0 - Through SD pad 1 - direct
NAND	1	BT_TOGGLEMODE	Pages in Block: 00 - 128 01 - 64 10 - 32 11 - 256	Nand Number of Devices: 00 - 1 01 - 2 10 - 4 11 - Reserved	Nand Row Address Bytes: 00 - 3 01 - 4 10 - 4 11 - 5	Reserved	Reserved	Reserved

TYPE	BOOT_CFG2[7]	BOOT_CFG2[6]	BOOT_CFG2[5]	BOOT_CFG2[4]	BOOT_CFG2[3]	BOOT_CFG2[2]	BOOT_CFG2[1]	BOOT_CFG2[0]
QSPI	Reserved	QSPI Half Speed Phase Select on 1 - select sampling at non-inverted clock 0 - select sampling at inverted clock	QSPI Full Speed Delay Select on 1 - no clock delay 0 - 1 clock delay	QSPI Full Speed Phase Select on 1 - select sampling at non-inverted clock 0 - select sampling at inverted clock	QSPI Full Speed Delay Select on 1 - no clock delay 0 - 1 clock delay	Boot Frequencies (ARM/DSP) 0 - 500 / 400 MHz 1 - 250 / 200 MHz	Reserved	Reserved
WEIM	Muxing Scheme: 00 - A016 01 - A+D 10 - A+R 11 - Reserved	OneNand Page Size: 00 - 1KB 01 - 2KB 10 - 4KB 11 - Reserved	Reserved	Reserved	Reserved	Boot Frequencies (ARM/DSP) 0 - 500 / 400 MHz 1 - 250 / 200 MHz	Reserved	Reserved
Serial-ROM	Reserved	Reserved	Reserved	Reserved	Reserved	Boot Frequencies (ARM/DSP) 0 - 500 / 400 MHz 1 - 250 / 200 MHz	Reserved	Reserved
SD/eSD	SD Calibr 1 on St ep 00 - 1 TBD	Bus Width: 0 - 1-bit 1 - 4-bit	Port Select: 00 - USDMC1 01 - USDMC2 10 - Reserved 11 - Reserved	Port Select: 00 - USDMC1 01 - USDMC2 10 - Reserved 11 - Reserved	Boot Frequencies (ARM/DSP) 0 - 500 / 400 MHz 1 - 250 / 200 MHz	SD1 VOLTAGE SELECTION 0 - 3.3V 1 - 1.8V	Reserved	Reserved
MMC/eMMC	Bus Width: 00 - 1-bit 001 - 4-bit 010 - 8-bit 011 - 8-bit (DDR (MMC 4.4) 110 - 8-bit (DDR (MMC 4.4) 111 - Reserved	Port Select: 00 - USDMC1 01 - USDMC2 10 - Reserved 11 - Reserved	Port Select: 00 - USDMC1 01 - USDMC2 10 - Reserved 11 - Reserved	Port Select: 00 - USDMC1 01 - USDMC2 10 - Reserved 11 - Reserved	Boot Frequencies (ARM/DSP) 0 - 500 / 400 MHz 1 - 250 / 200 MHz	SD1 VOLTAGE SELECTION 0 - 3.3V 1 - 1.8V	Reserved	Reserved
NAND	Logic Mode 2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/1044/1045/1046/1047/1048/1049/1050/1051/1052/1053/1054/1055/1056/1057/1058/1059/1060/1061/1062/1063/1064/1065/1066/1067/1068/1069/1070/1071/1072/1073/1074/1075/1076/1077/1078/1079/1080/1081/1082/1083/1084/1085/1086/1087/1088/1089/1090/1091/1092/1093/1094/1095/1096/1097/1098/1099/1100/1101/1102/1103/1104/1105/1106/1107/1108/1109/1110/1111/1112/1113/1114/1115/1116/1117/1118/1119/1120/1121/1122/1123/1124/1125/1126/1127/1128/1129/1130/1131/1132/1133/1134/1135/1136/1137/1138/1139/1140/1141/1142/1143/1144/1145/1146/1147/1148/1149/1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161/1162/1163/1164/1165/1166/1167/1168/1169/1170/1171/1172/1173/1174/1175/1176/1177/1178/1179/1180/1181/1182/1183/1184/1185/1186/1187/1188/1189/1190/1191/1192/1193/1194/1195/1196/1197/1198/1199/1200/1201/1202/1203/1204/1205/1206/1207/1208/1209/1210/1211/1212/1213/1214/1215/1216/1217/1218/1219/1220/1221/1222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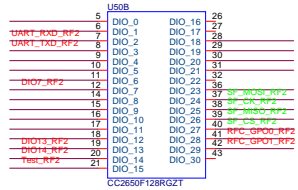
Power



Burn



RF CC2640R2F



NOTE:



ICAP Classification: CP: IUD: X PUBI:			
Drawing Title: MCIMX6ULL-CM			
Page Title: NOTE			
Size C	Document Number SCH-29364 PDF: SPF-29364	Rev A	
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