

BOOT OPTION

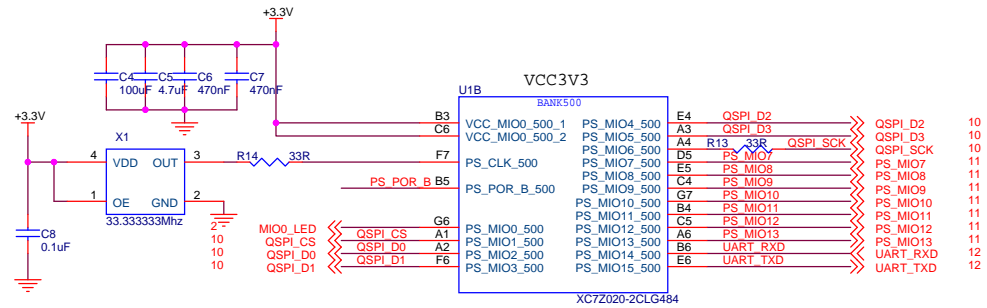
The diagram shows two 3.3V supply lines. The first line connects to a series of resistors (R9, R8, R10, R11) which are connected to PS MIO8, GSPI D0, GSPI D1, GSPI SCK, and PS MIO7. The second line connects to a network of resistors (R75, R78, R76, R77) which are connected to SW DIP-2, GSPI D3, and GSPI D2.

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MIO[8] = 1 ----MIO bank1 voltage=1.8V
MIO[2] = 0 ----cascaded JTAG
MIO[3] = 0 ----JTAG/NAND/Quad-SPI/SD
MIO[6] = 0 ----PLL used
MIO[7] = 0 ----MIO bank0 voltage=3.3V

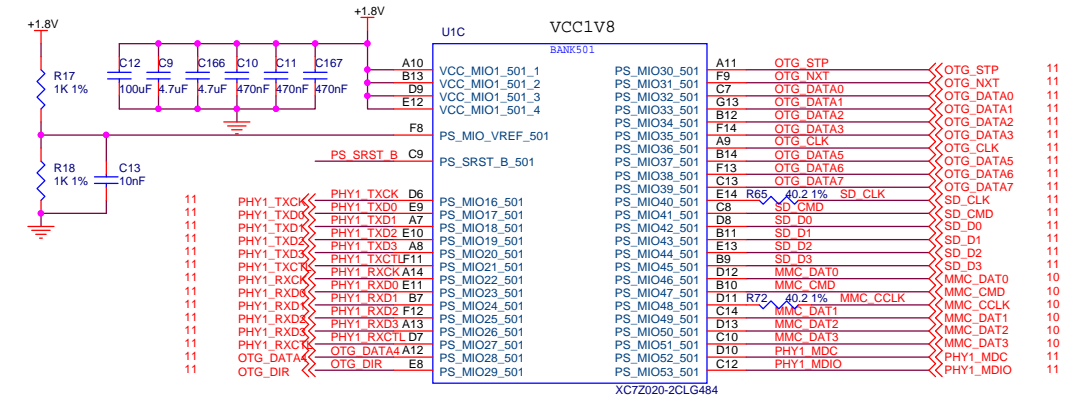
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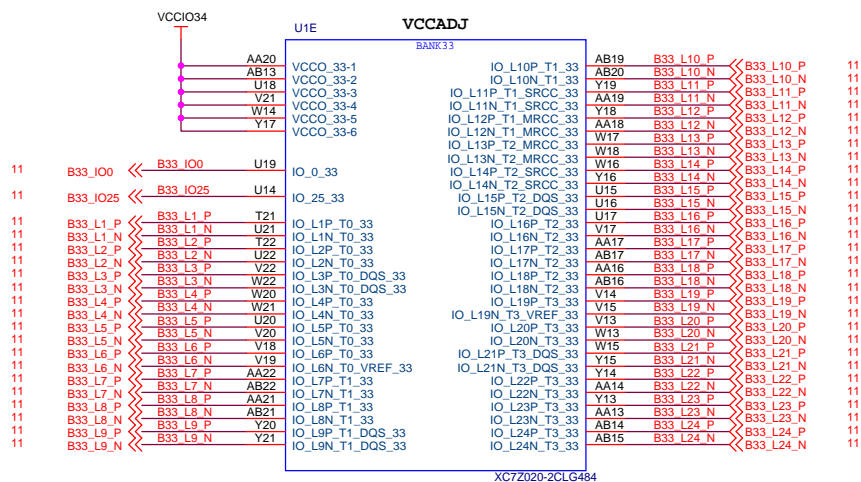
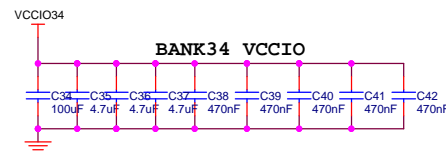
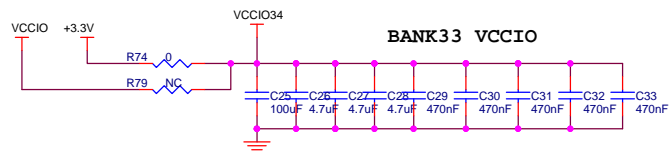
Boot Mode	MIO[5] (QSPI_D3)	MIO[4] (QSPI_D2)
JTAG	0	0
NAND	0	1
QSPI-FLASH	1	0
SD Card	1	1



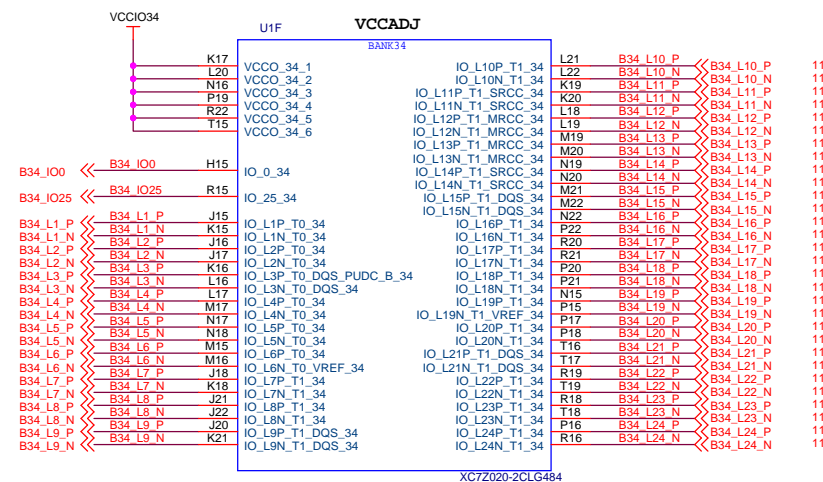
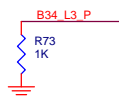
POWER ON RESET

The diagram illustrates a Power On Reset (POR) circuit. A TCM811TERCTR chip (U3) is used. Its pin 3 (#MR) is connected to a push-button switch labeled KEY1. Pin 4 (VDD) is connected to a +3.3V supply through a 0.1uF capacitor (C14). Pin 2 (#RESET) is connected to a +3.3V supply through a 4.7K resistor (R19) and also serves as the output signal PS_POR_B. Pin 1 (GND) is connected to ground. The chip is labeled U3 and TCM811TERCTR.

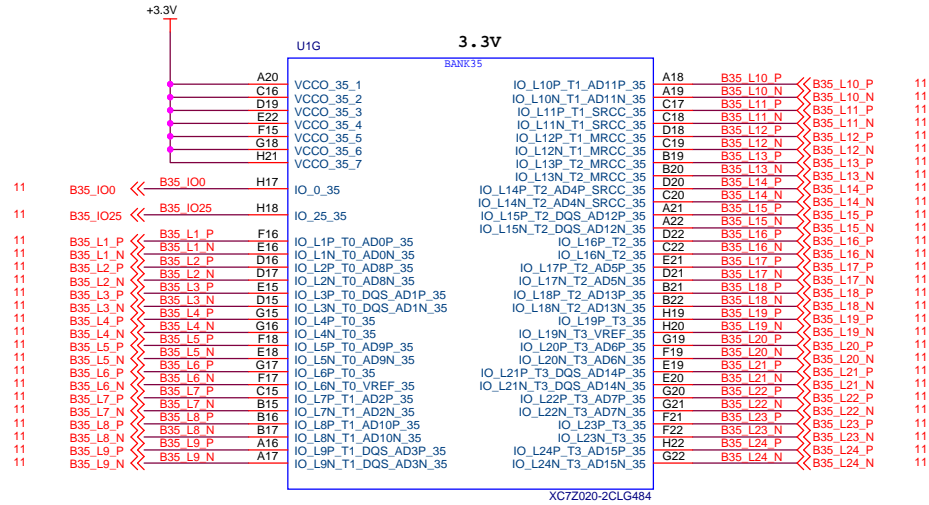
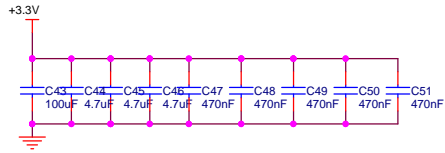


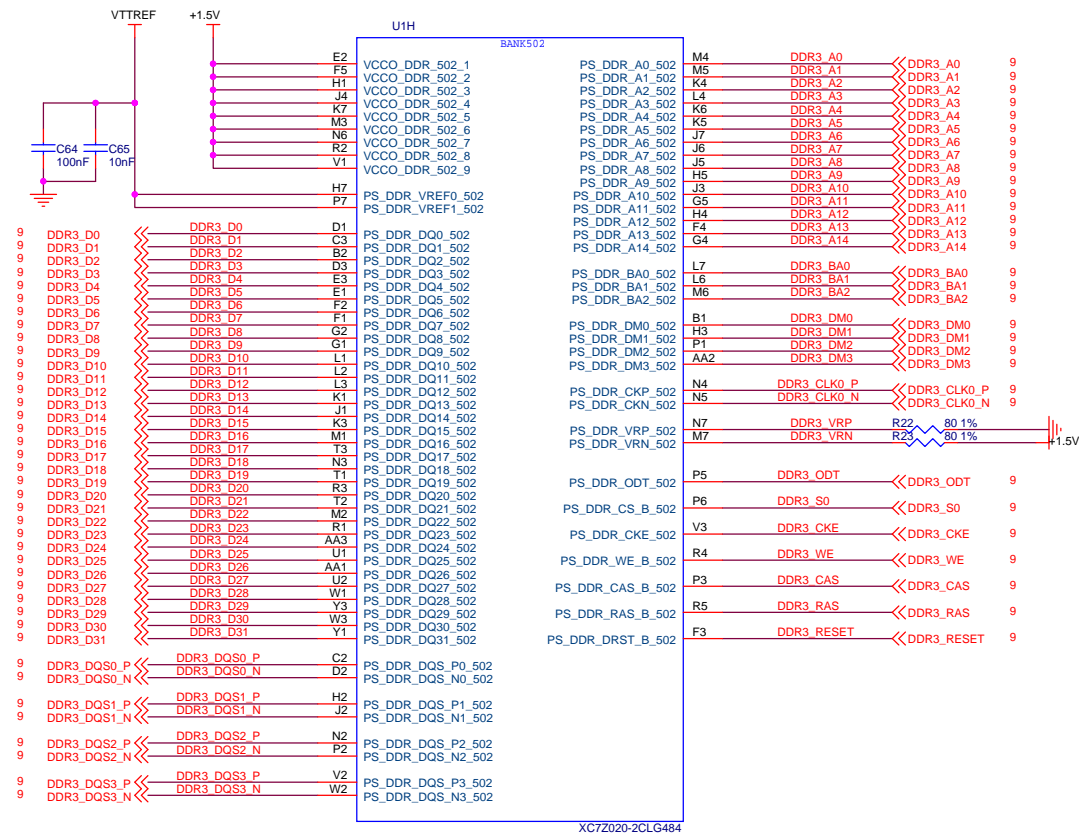


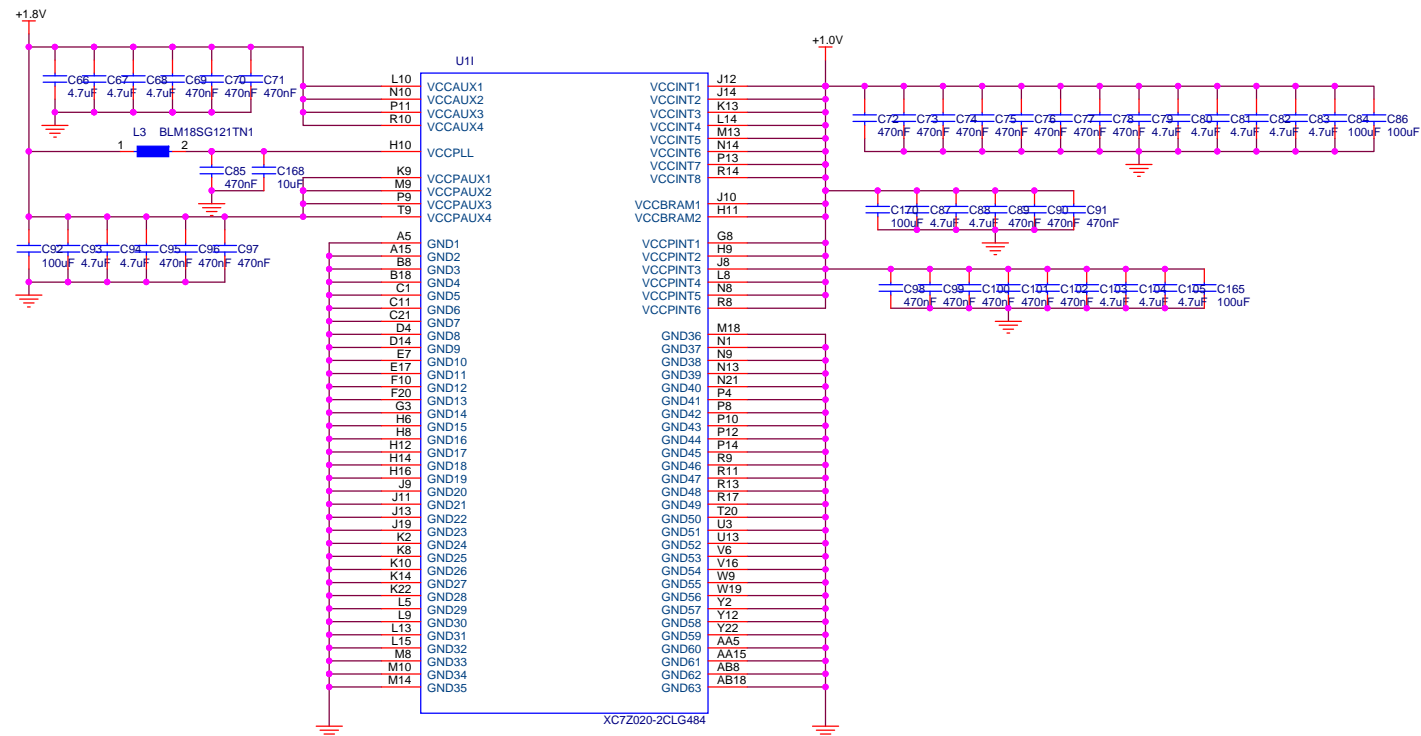
PUDC



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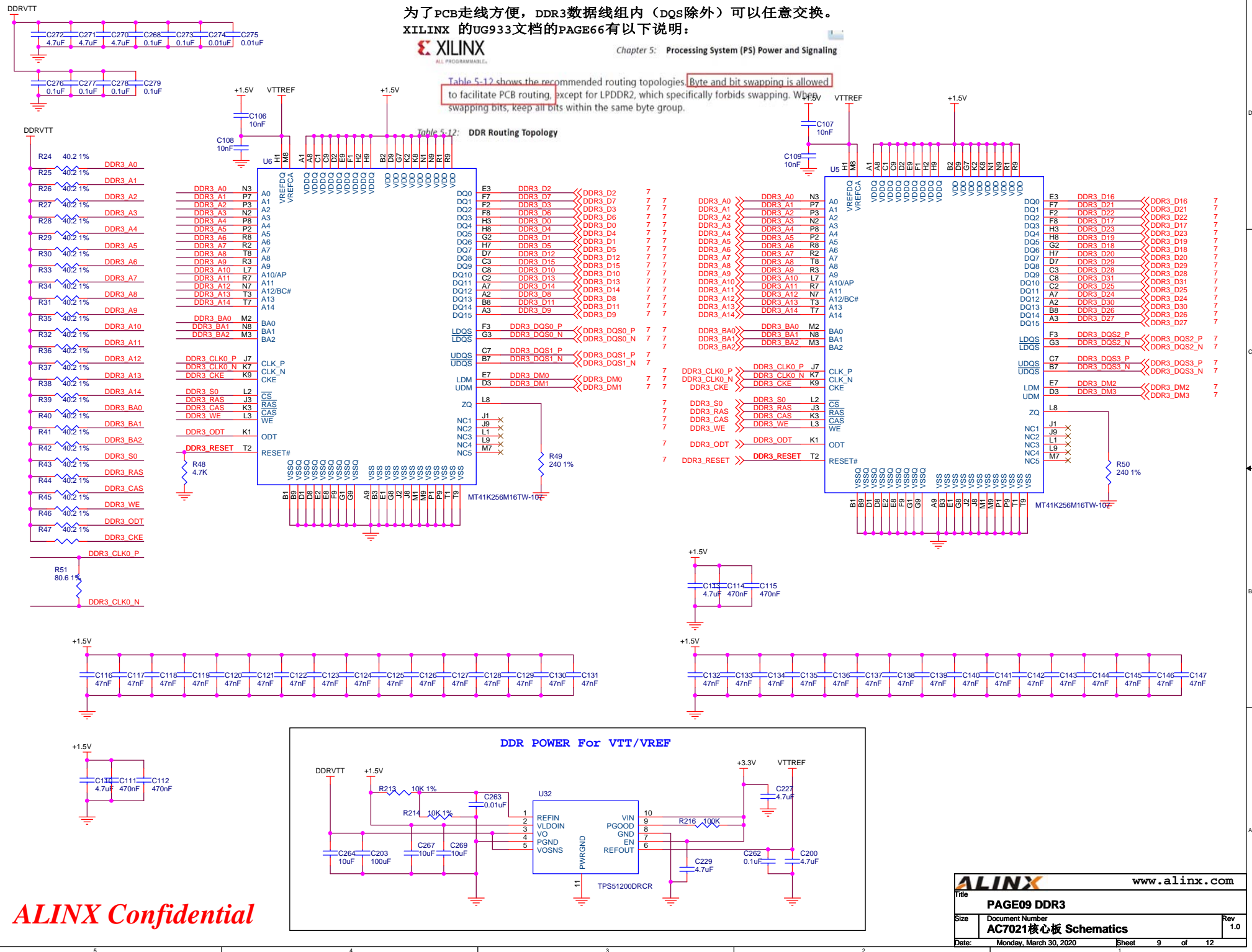
为了PCB走线方便, DDR3数据线组内(DQS除外)可以任意交换。
XILINX 的UG933文档的PAGE66有以下说明:



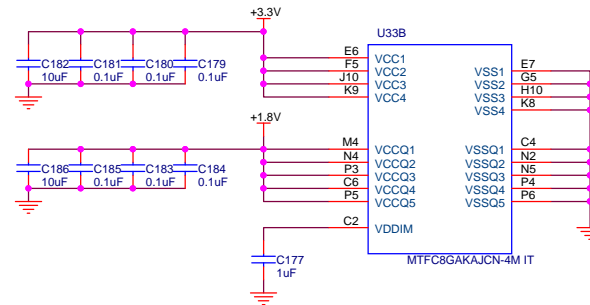
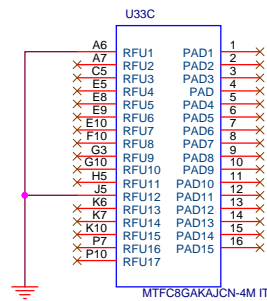
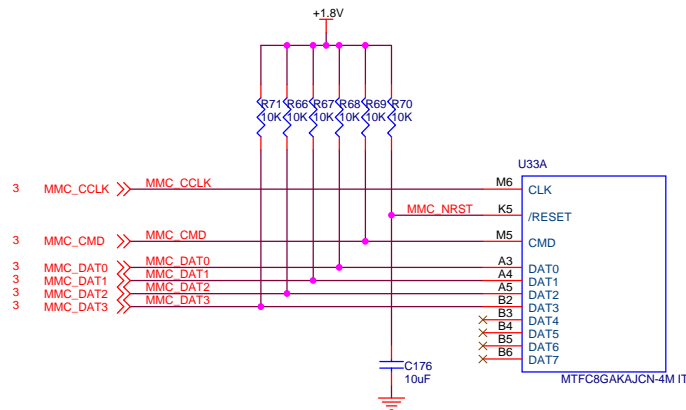
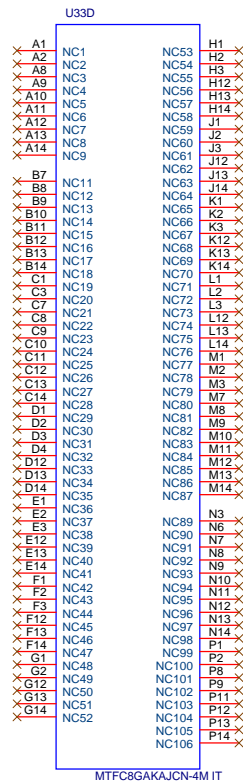
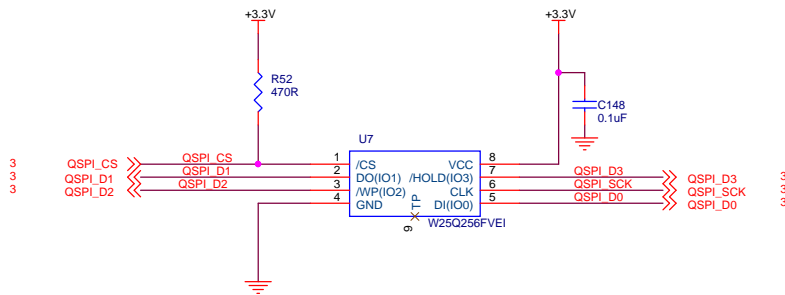
Chapter 5: Processing System (PS) Power and Signaling

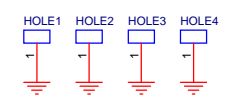
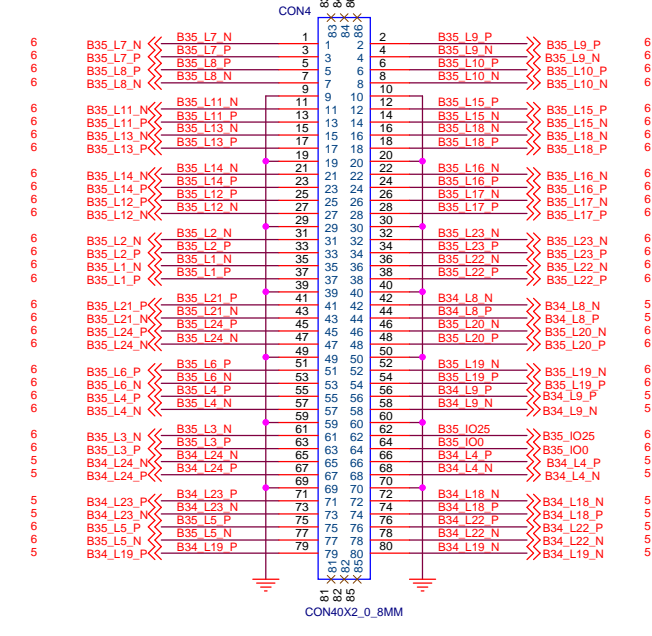
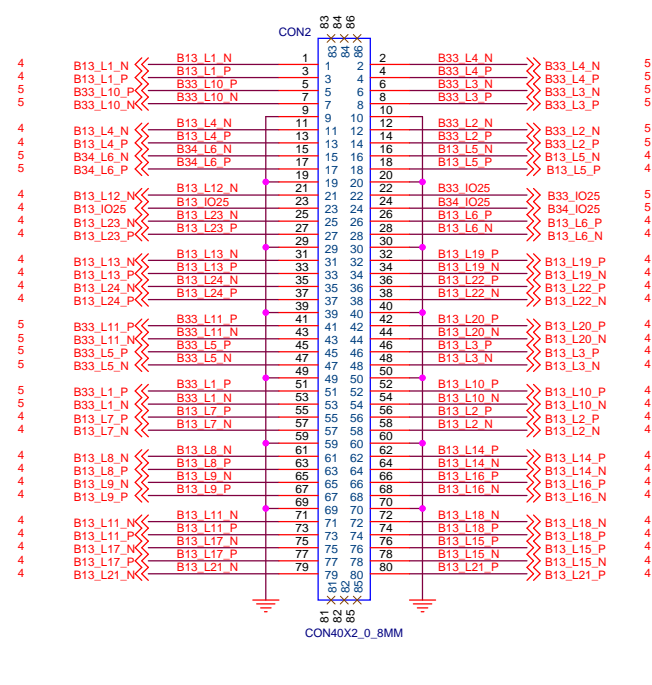
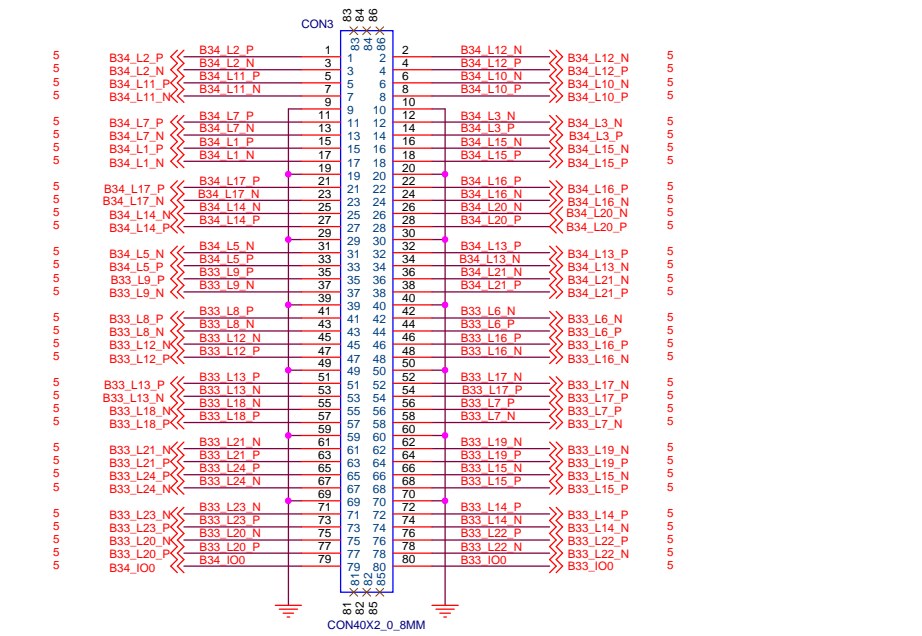
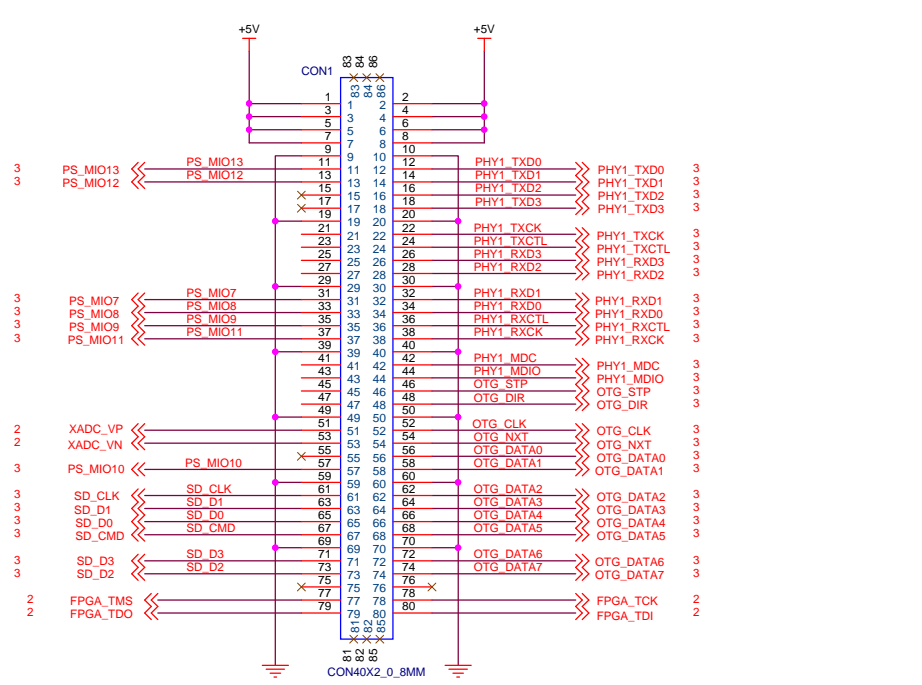
Table 5-12 shows the recommended routing topologies. Byte and bit swapping is allowed to facilitate PCB routing, except for LPDDR2, which specifically forbids swapping. When swapping bits, keep all bits within the same byte group.

Table 5-12: DDR Routing Topology



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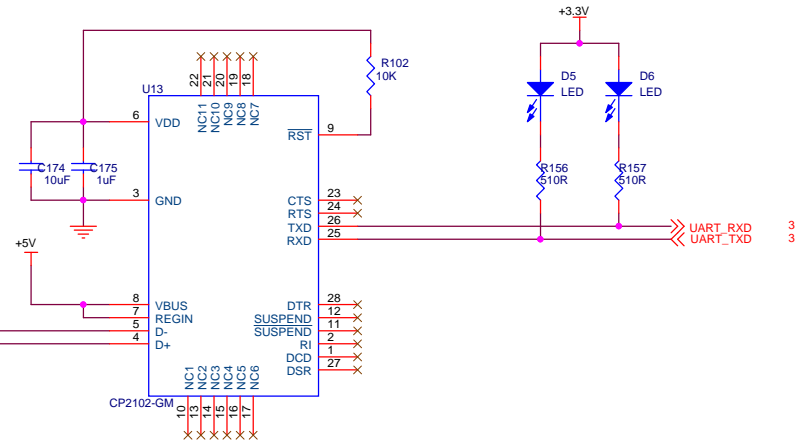
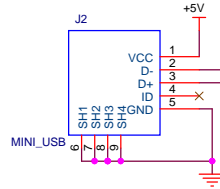
BANK33, BANK34 IO Voltage is adjustable

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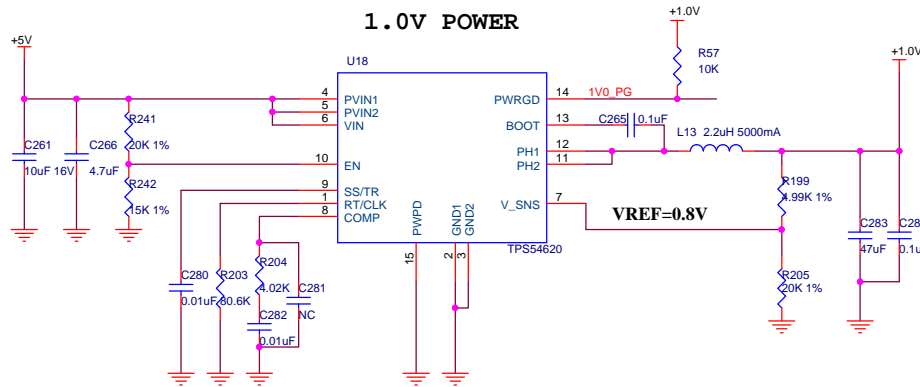
Power On Sequence:

1.0V -> 1.8V -> 1.5V -> 3.3V -> VCCIO

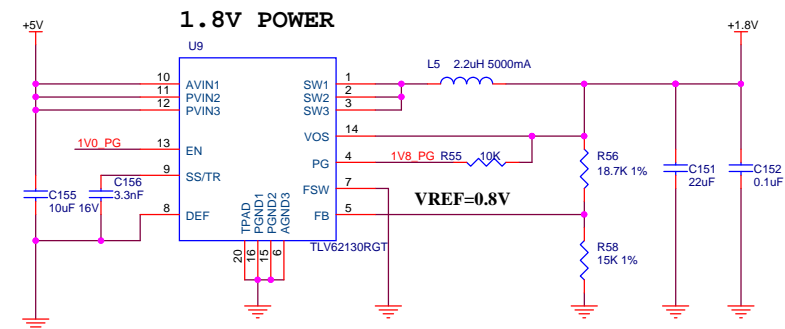
USB Uart



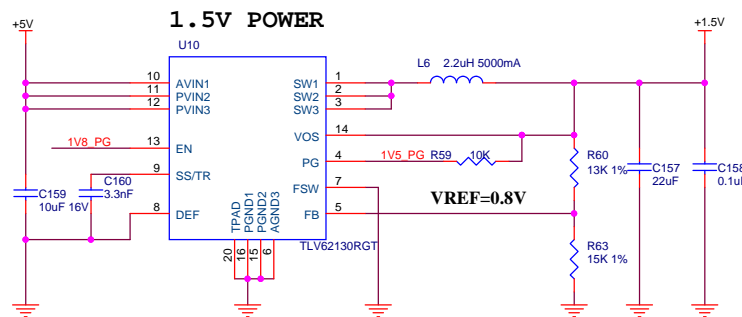
1.0V POWER



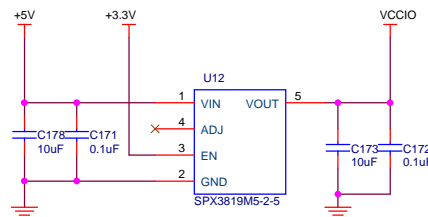
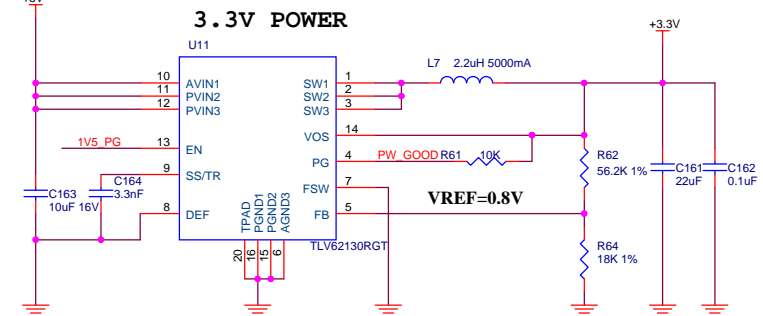
1.8V POWER



1.5V POWER



3.3V POWER



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