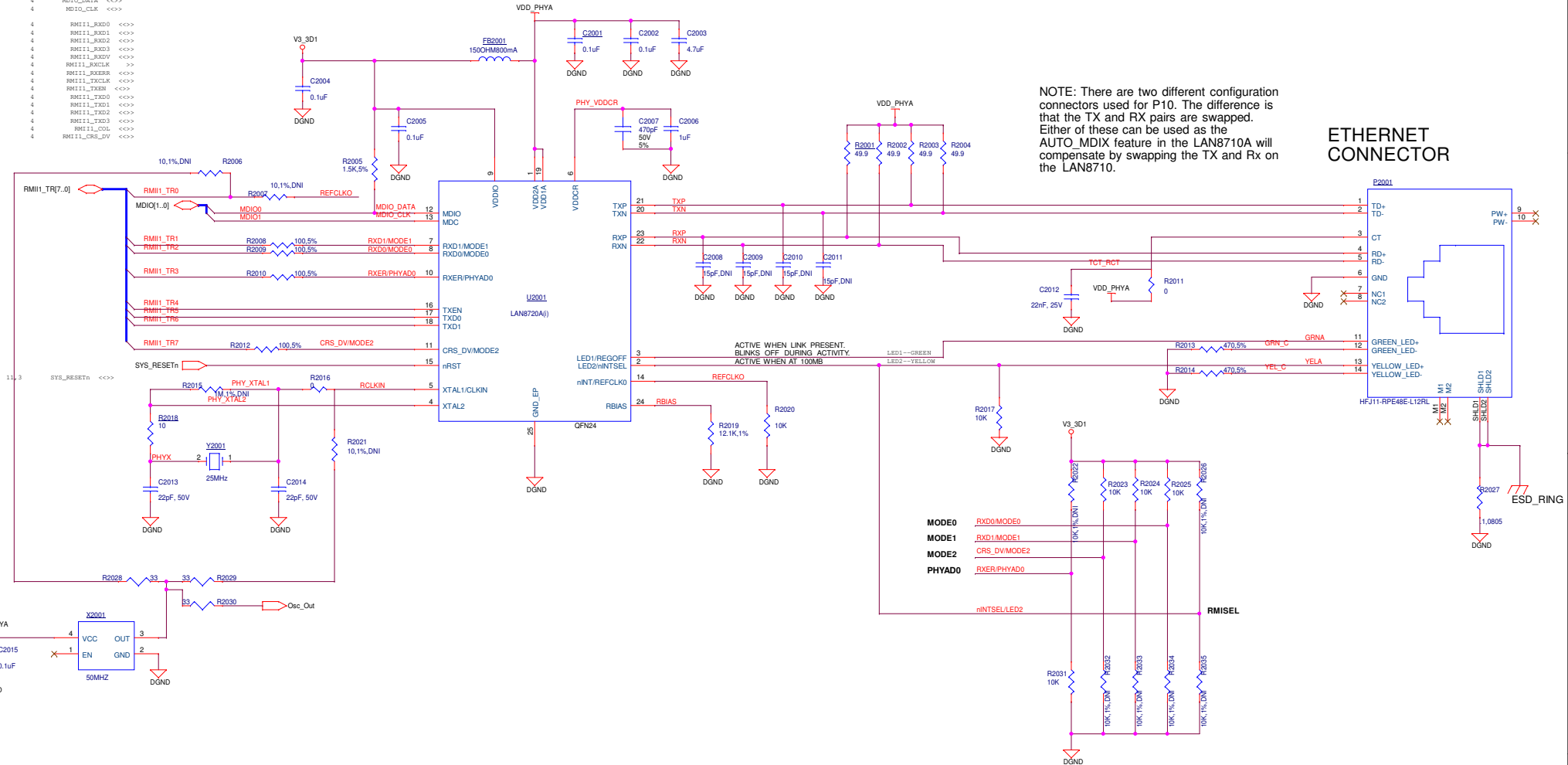
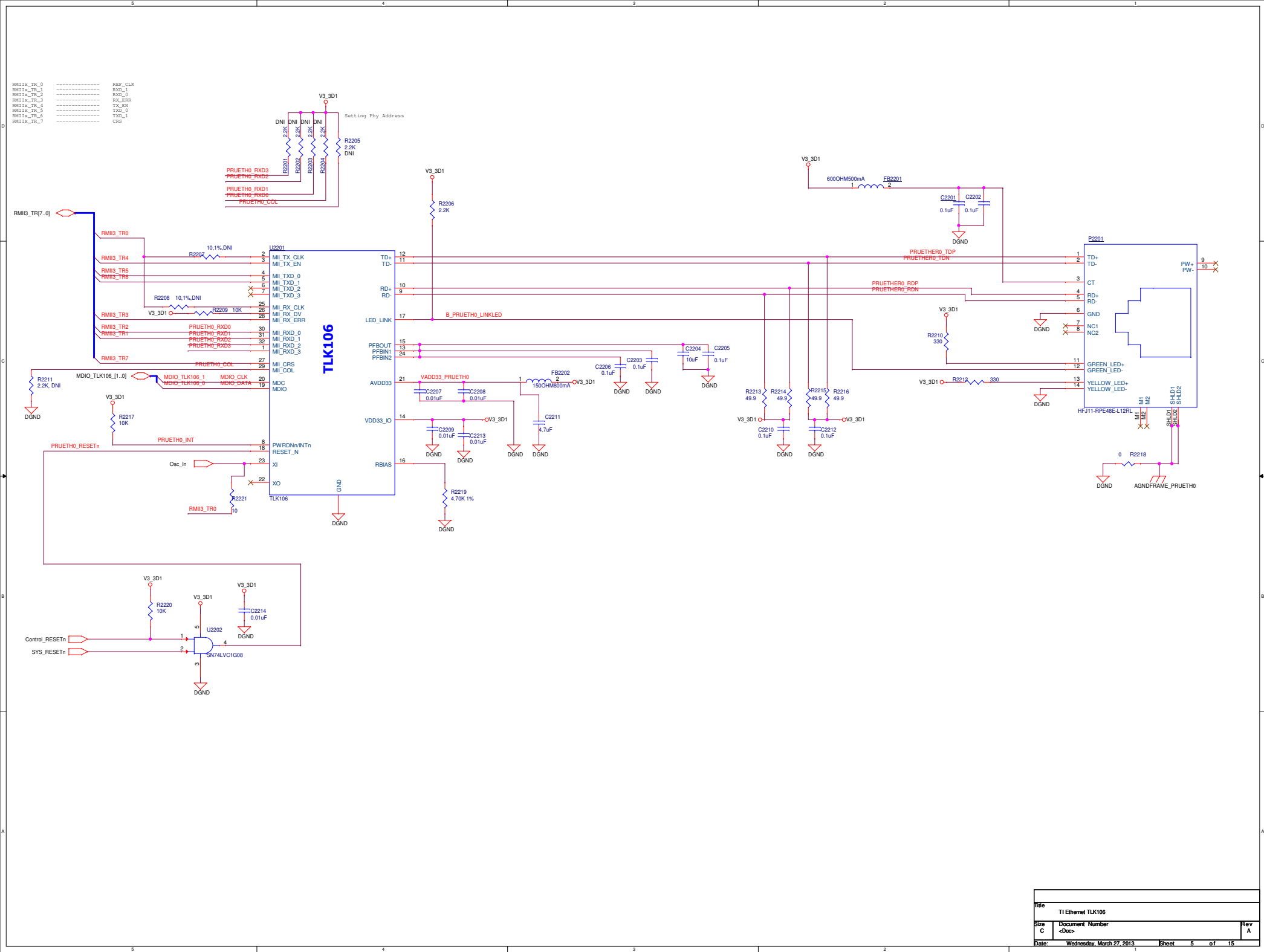


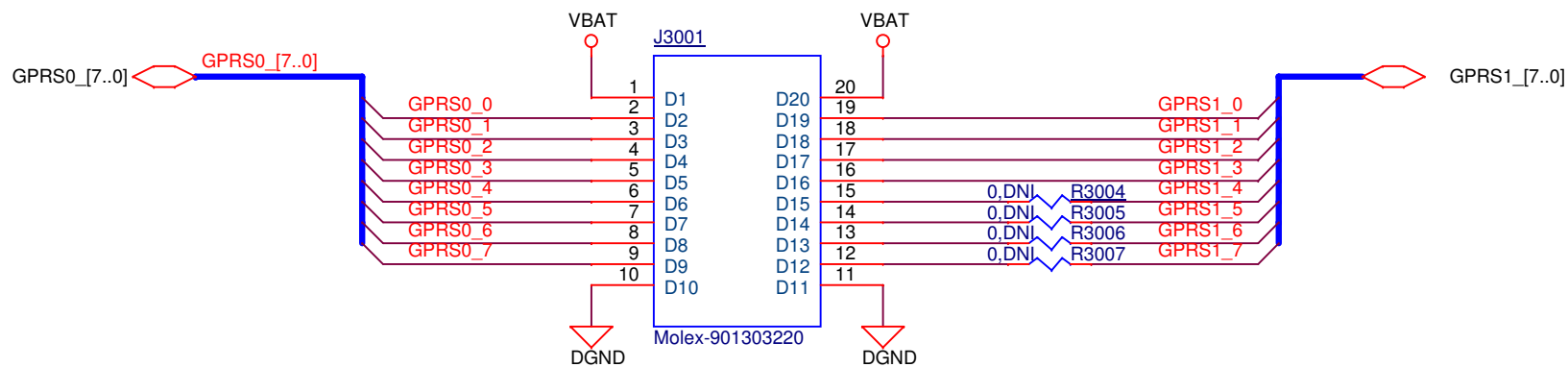
```

4  RMII1_REFCLK <<>
4  MDIO_DATA <<>
4  MDIO_CLK <<>
4
4  RMII1_RXD0 <<>
4  RMII1_RXD1 <<>
4  RMII1_RXD2 <<>
4  RMII1_RXD3 <<>
4  RMII1_RXDV <<>
4  RMII1_RXCLK <<>
4  RMII1_TXERR <<>
4  RMII1_TXEN <<>
4  RMII1_TXD0 <<>
4  RMII1_TXD1 <<>
4  RMII1_TXD2 <<>
4  RMII1_TXD3 <<>
4  RMII1_COL <<>
4  RMII1_CRS_DV <<>

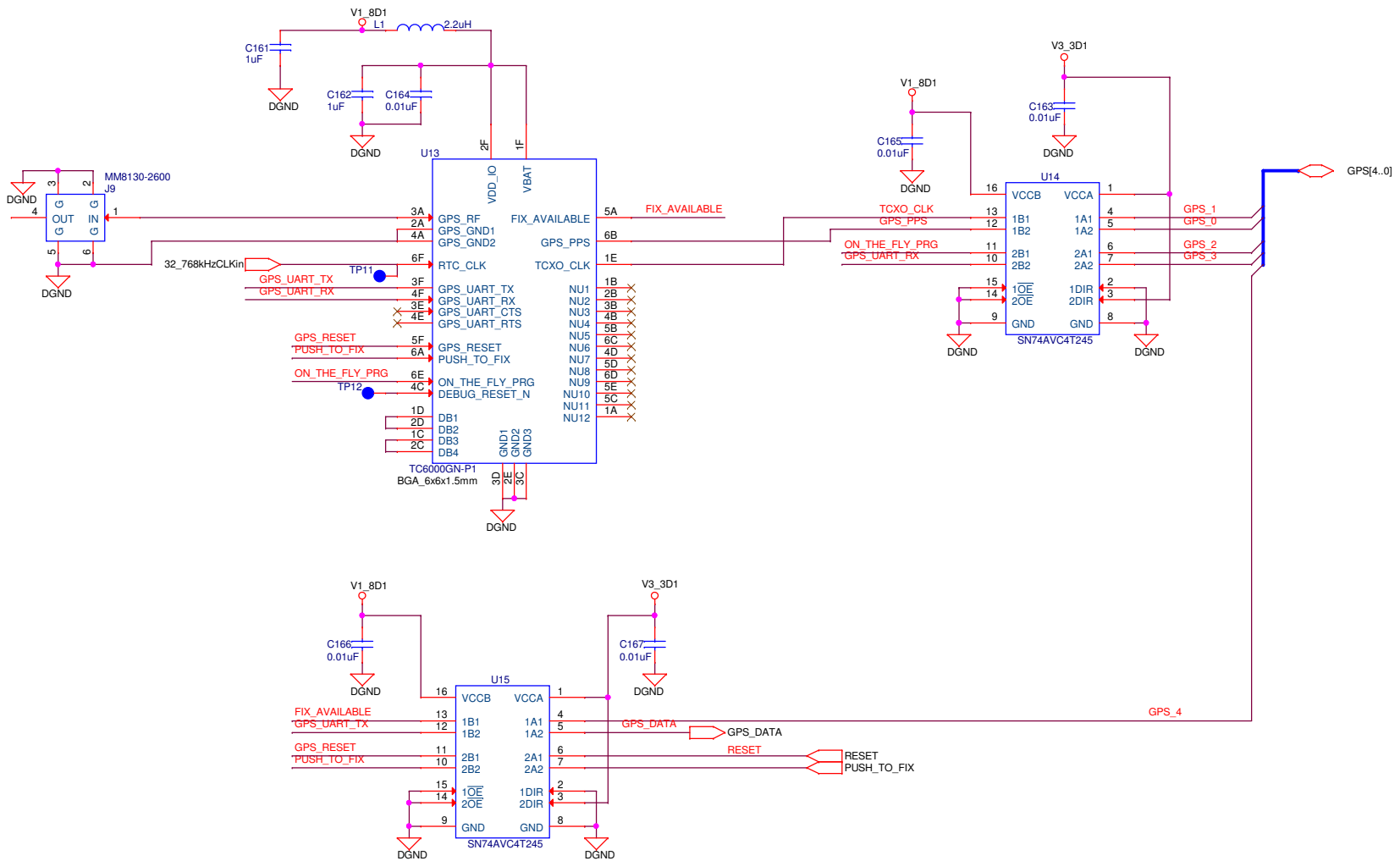
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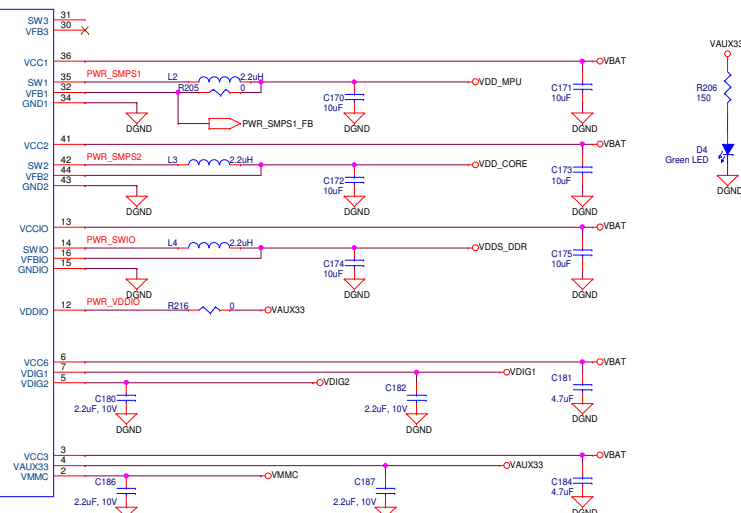
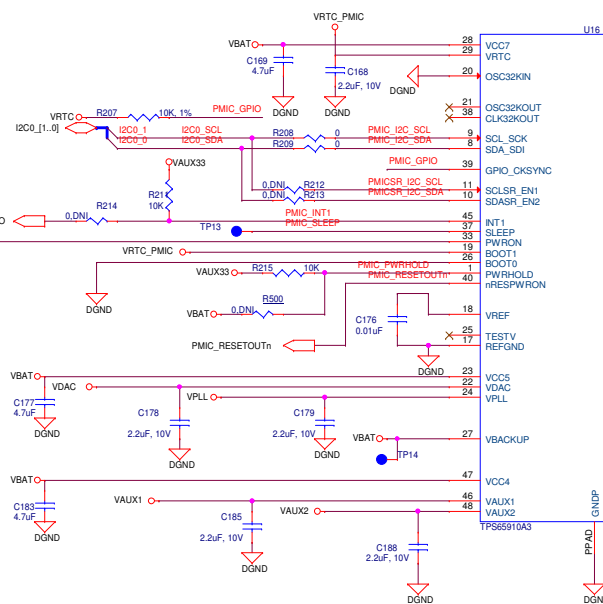
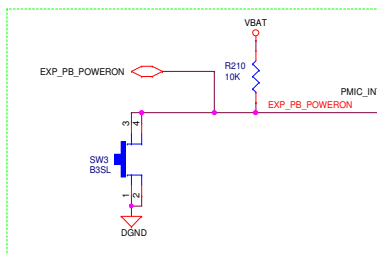


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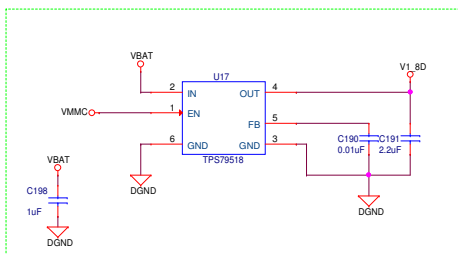


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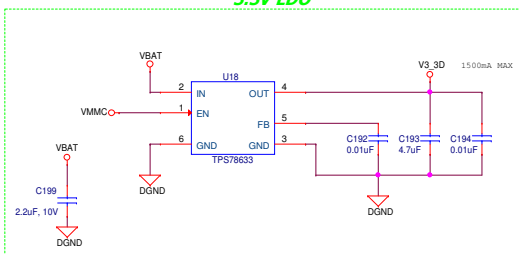
### Power Management IC



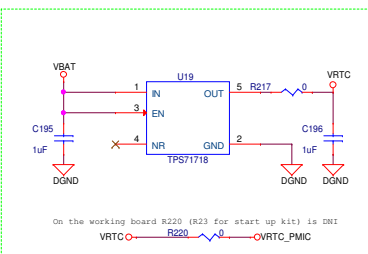
### 1.8V LDO



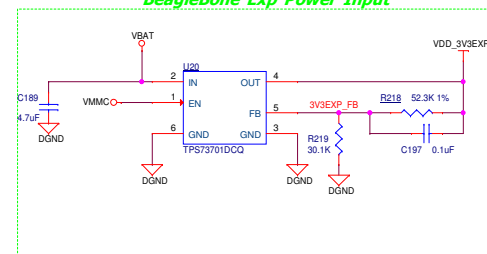
### 3.3V LDO



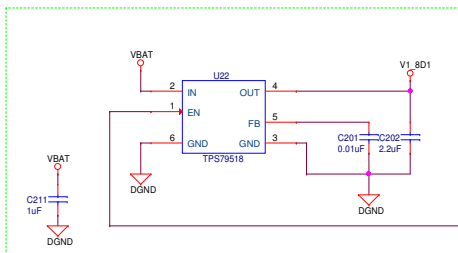
## RTC LDO



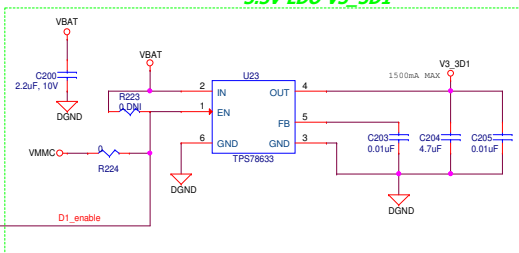
### BeagleBone Exp Power Input



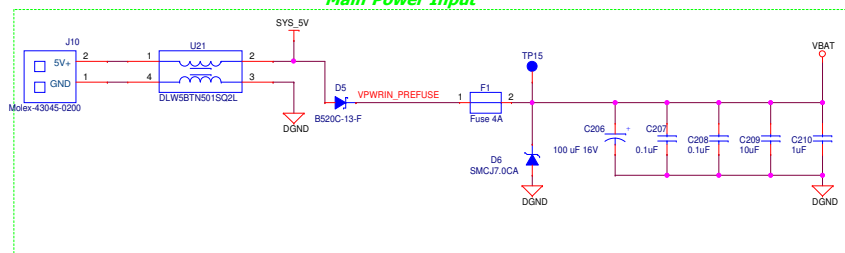
**1.8V LDO V1\_8D1**



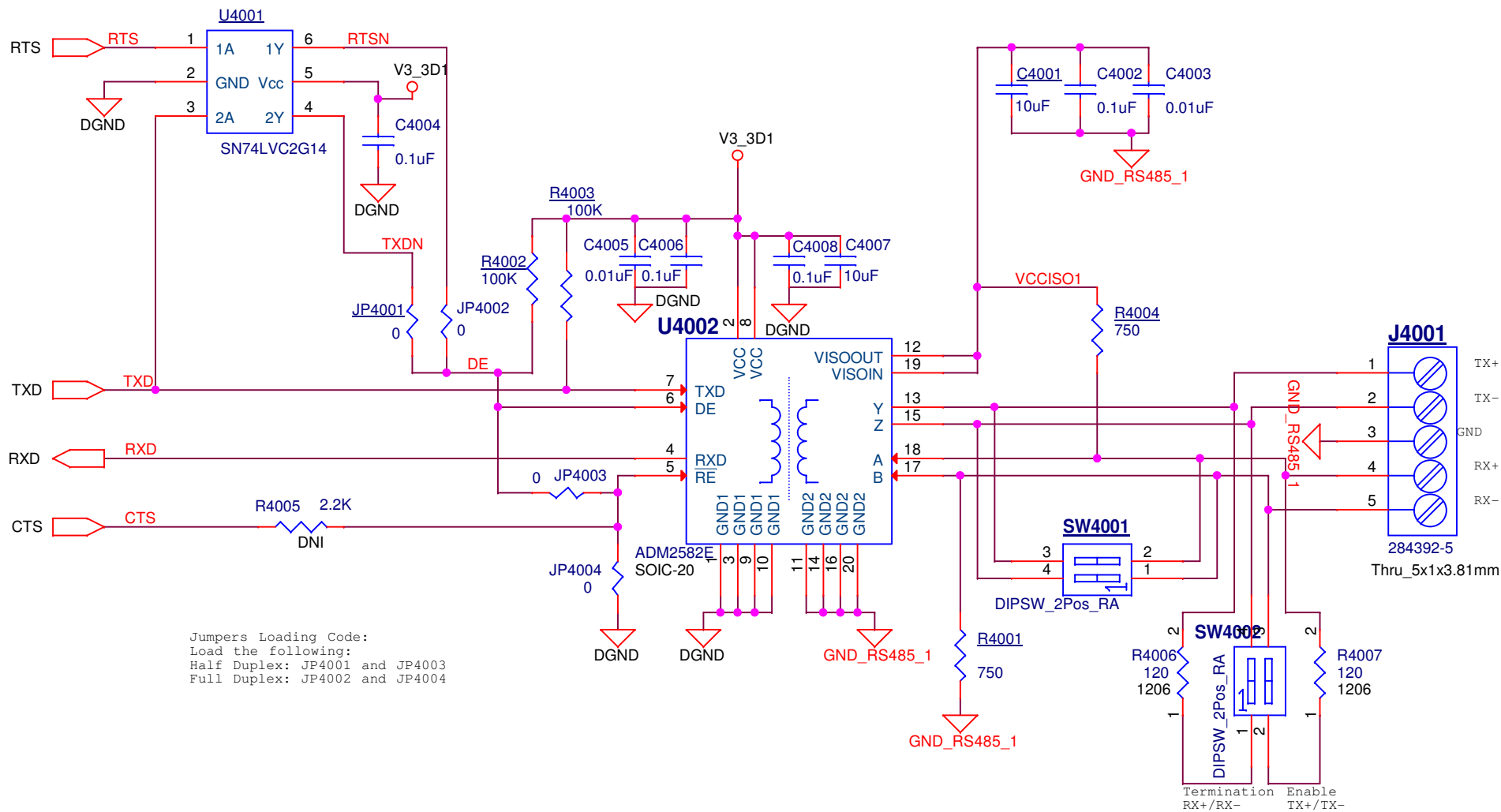
### 3.3V LDO V3\_3D1



### Main Power Input

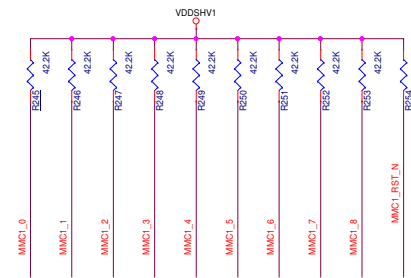
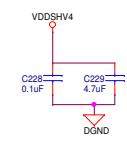


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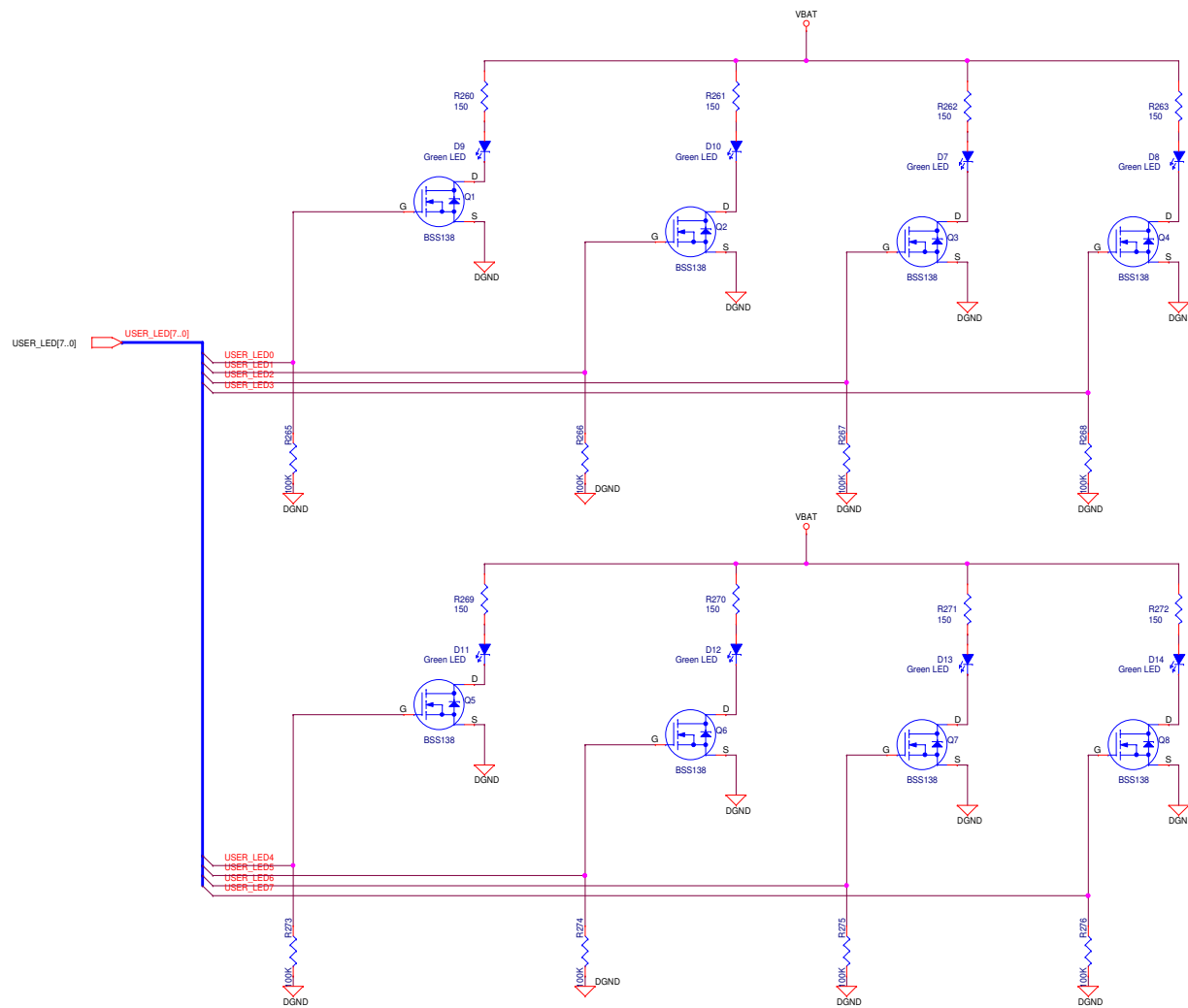




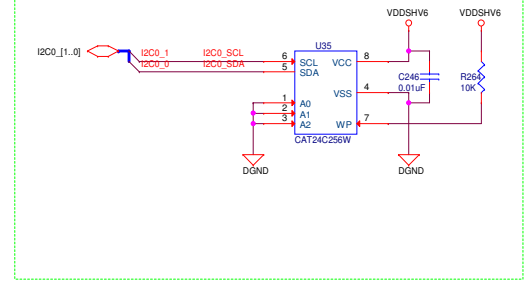
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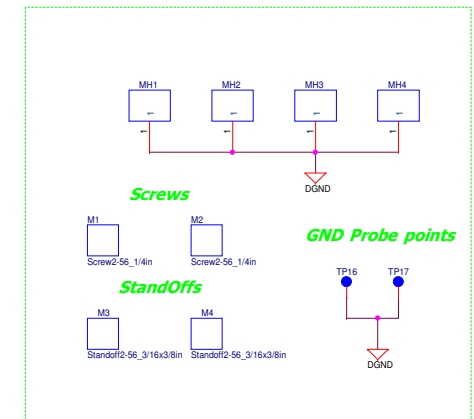
## User LEDs



## ID Memory



## Mechanical



## Screws

M1 Screw2-56\_1/4in  
M2 Screw2-56\_1/4in

## StandOffs

M3 Standoff2-56\_3/16x3/8in  
M4 Standoff2-56\_3/16x3/8in

## GND Probe points

TP16  
TP17

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The image shows a detailed PCB layout for an AM335X module. The central component is the AM335X processor, with various pins connected to external components and connectors. Key features include:

- Power and Ground:** V1\_8D and VCOM\_BAT 3.3V are connected to the power planes. Ground planes are shown in green.
- Connectors:** A USB connector (J16) is located at the bottom right. A 2.4G\_Ant connector is at the bottom center.
- Antenna Matching:** A matching network is shown at the bottom left, consisting of an antenna (ANT1) and a matching network (L10, L11, R292, R293).
- Signal Traces:** Various signal traces are shown, including UART, SPI, I2C, and other interfaces. The traces are color-coded (blue for signal, red for power, green for ground).
- Components:** Various components are labeled, including capacitors (C247, C248, C251), inductors (L8, L9, L10, L11), and resistors (R289, R290, R292, R293).

The image displays three circuit diagrams for the SN74AVC4245 (U36, U37, U38) components, showing their pin connections to a system with V1\_8D and V3\_3D power rails.

**U36 Pin Connections:**

- VCCB:** V1\_8D
- VCCA:** V3\_3D
- 1B1:** COMWL\_IRQ
- 1A1:** AM335X\_COM\_WL\_IRQ
- 1B2:** COMAUD\_OUT
- 1A2:** AM335X\_COMAUD\_OUT
- 2B1:** COMAUD\_FSYNC
- 2A1:** AM335X\_COMAUD\_FSYNC
- 2B2:** COM\_BT\_RST
- 2A2:** AM335X\_COM\_BT\_RST
- 1DIR:** 2
- 2DIR:** 3
- IOE:** 15
- 2OE:** 14
- GND:** 9, 8

**U37 Pin Connections:**

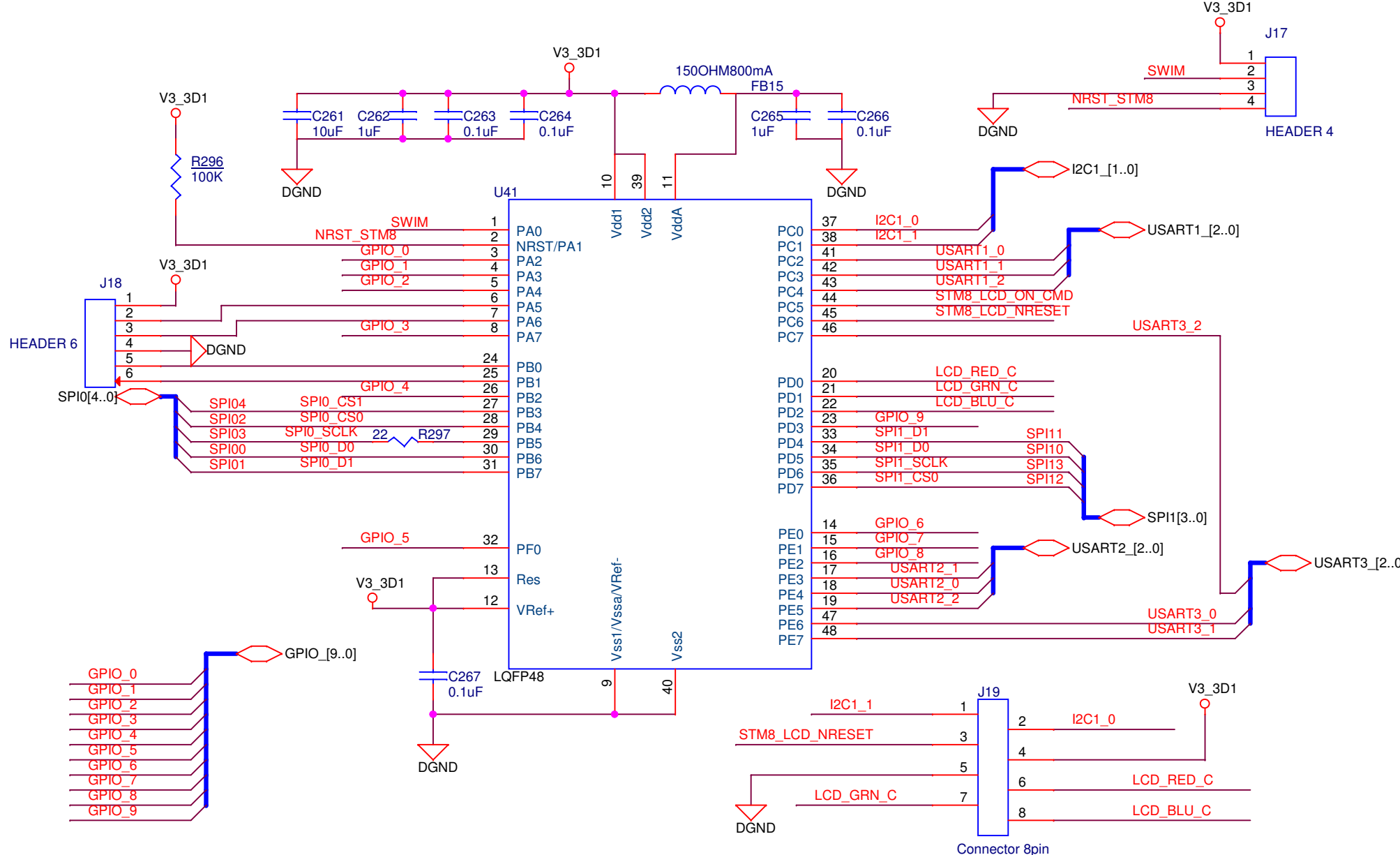
- VCCB:** V1\_8D
- VCCA:** V3\_3D
- 1B1:** COMAUD\_CLK
- 1A1:** AM335X\_COMAUD\_CLK
- 1B2:** COMAUD\_IN
- 1A2:** AM335X\_COMAUD\_IN
- 2B1:** COM\_SLOW\_CLK
- 2A1:** AM335X\_XDMA\_EVENT\_INTR1
- 2B2:** GND
- 2A2:** GND
- 1DIR:** 2
- 2DIR:** 3
- IOE:** 15
- 2OE:** 14
- GND:** 9, 8

**U38 Pin Connections:**

- VCCB:** V1\_8D
- VCCA:** V3\_3D
- 1B1:** COMBTUARTTX
- 1A1:** AM335X\_UART1\_TXD
- 1B2:** COMBTUARTCTS
- 1A2:** AM335X\_UART1\_RTSn
- 2B1:** COMBTUARTTX
- 2A1:** AM335X\_UART1\_RXD
- 2B2:** COMBTUARTRTS
- 2A2:** AM335X\_UART1\_CTSn
- 1DIR:** 2
- 2DIR:** 3
- IOE:** 15
- 2OE:** 14
- GND:** 9, 8

Each diagram also shows decoupling capacitors: C256 (0.01uF) for V1\_8D and C257 (0.01uF) for V3\_3D.

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