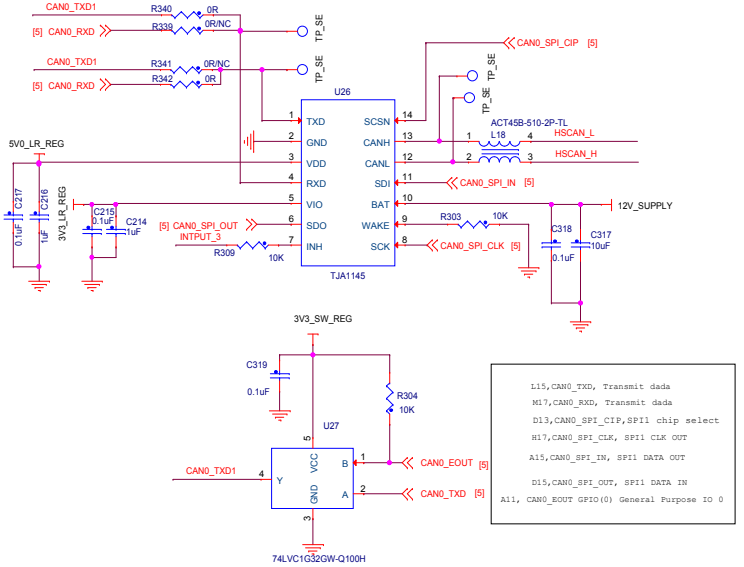
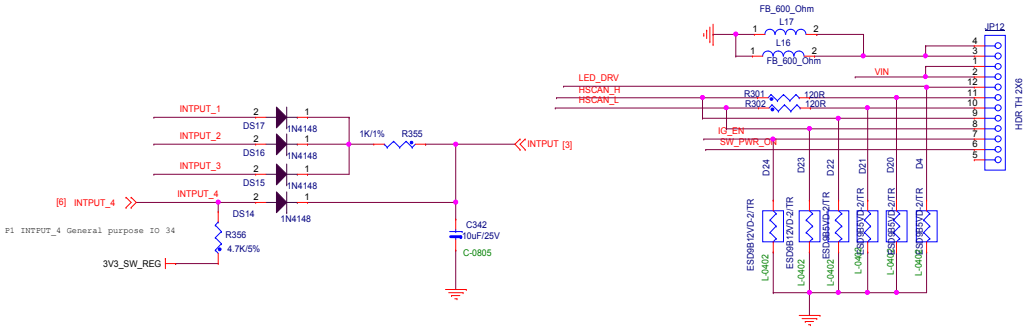
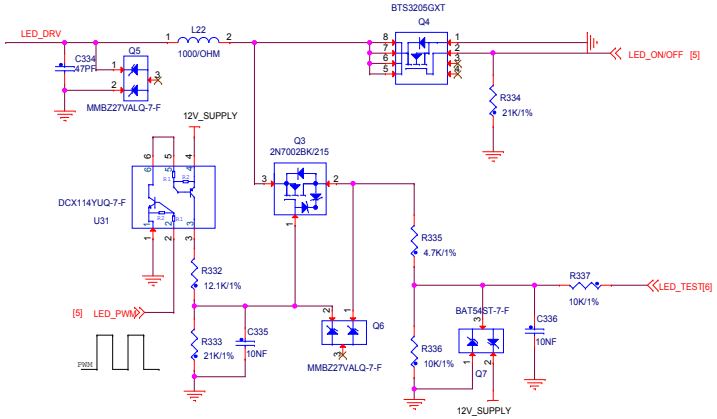
## CAN PHY




L15,CAN0_TXD, Transmit dada
M17,CAN0_RXD, Transmit dada
D13,CAN0_SPI_CIP,SPI1 chip select
H17,CAN0_SPI_CLK, SPI1 CLK OUT
A15,CAN0_SPI_IN, SPI1 DATA OUT
D15,CAN0_SPI_OUT, SPI1 DATA IN
A11, CAN0_EOUT GPIO(0) General Purpose IO 0

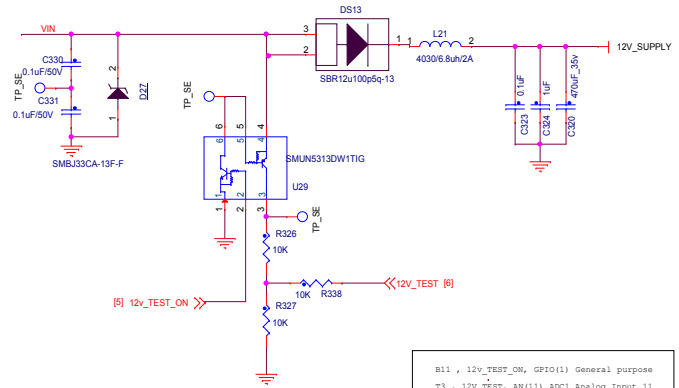



## LED_DRV_TEST



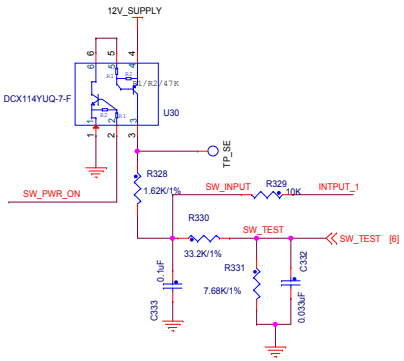

B13 , LED_PWM, GPIO(56) General Purpose IO 56
T2 , LED_TEST, AN(13) Analog Input 13
M15 , LED_ON/OFF GPIO(14) General Purpose IO 14

## 12V_TEST



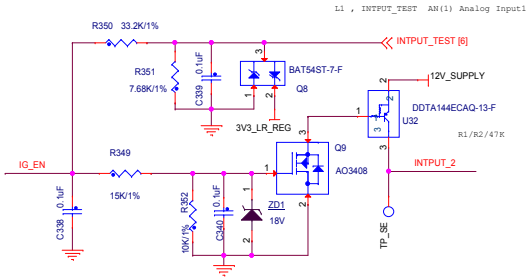

B11 , 12v_TEST_ON, GPIO(1) General purpose
T3 , 12V_TEST, AN(11) ADC1 Analog Input 11

## SW_PWR_ON_TEST



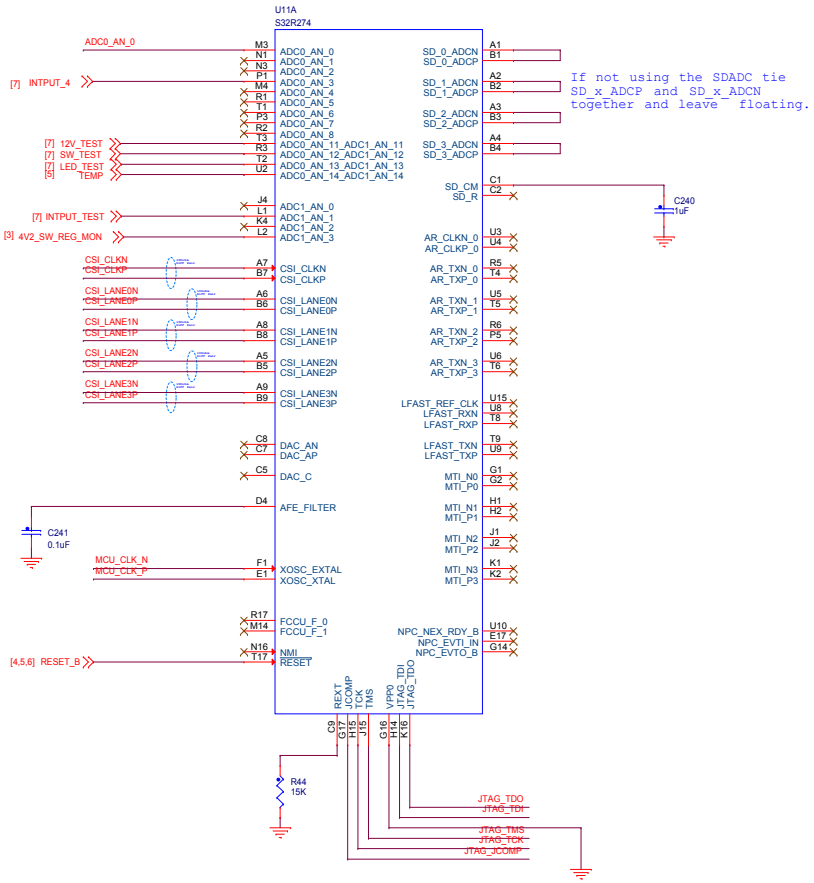

R3 , SW_TEST, AN(12) Analog Input 12

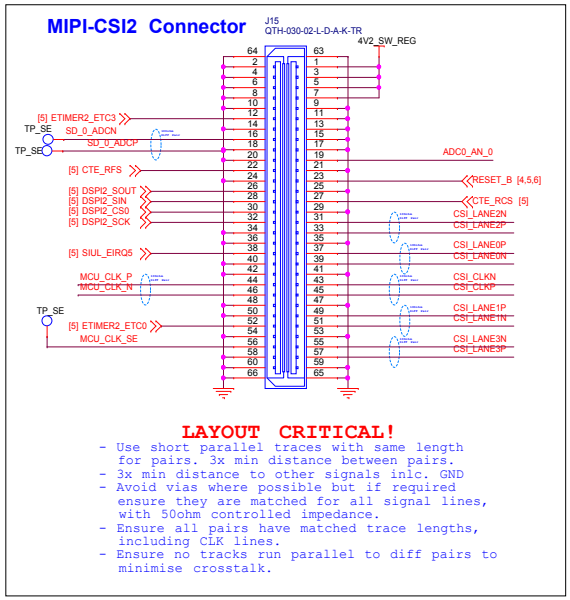
## IG_EN_TEST

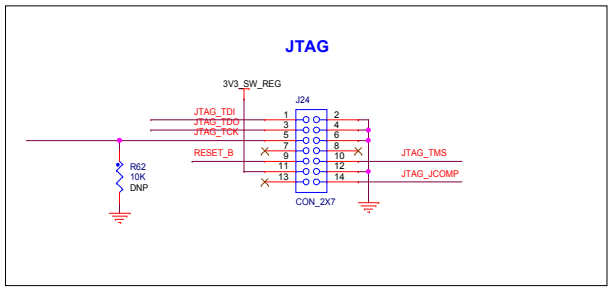



机驭智能 vehicular.ai

| | | |
|---|---|---|
| ICAP Classification: cp: ___ IUO: x PUBI: ___ | | |
| Drawing Title: 77GHz_RADAR | | |
| PageTitle: CAN PHY | | |
| Size C | Document Number SCH: VA1701A01E PDF: VA1701A01E | Rev A1 |
| Date: Tuesday,October 10,2017 | Sheet 7 of 7 | |



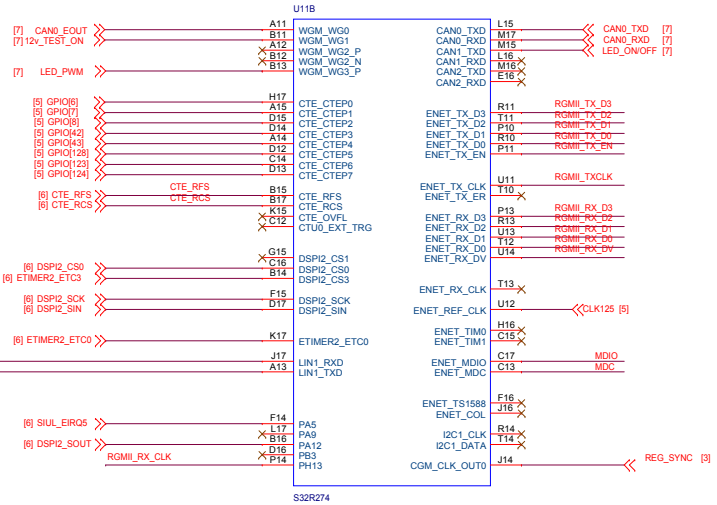



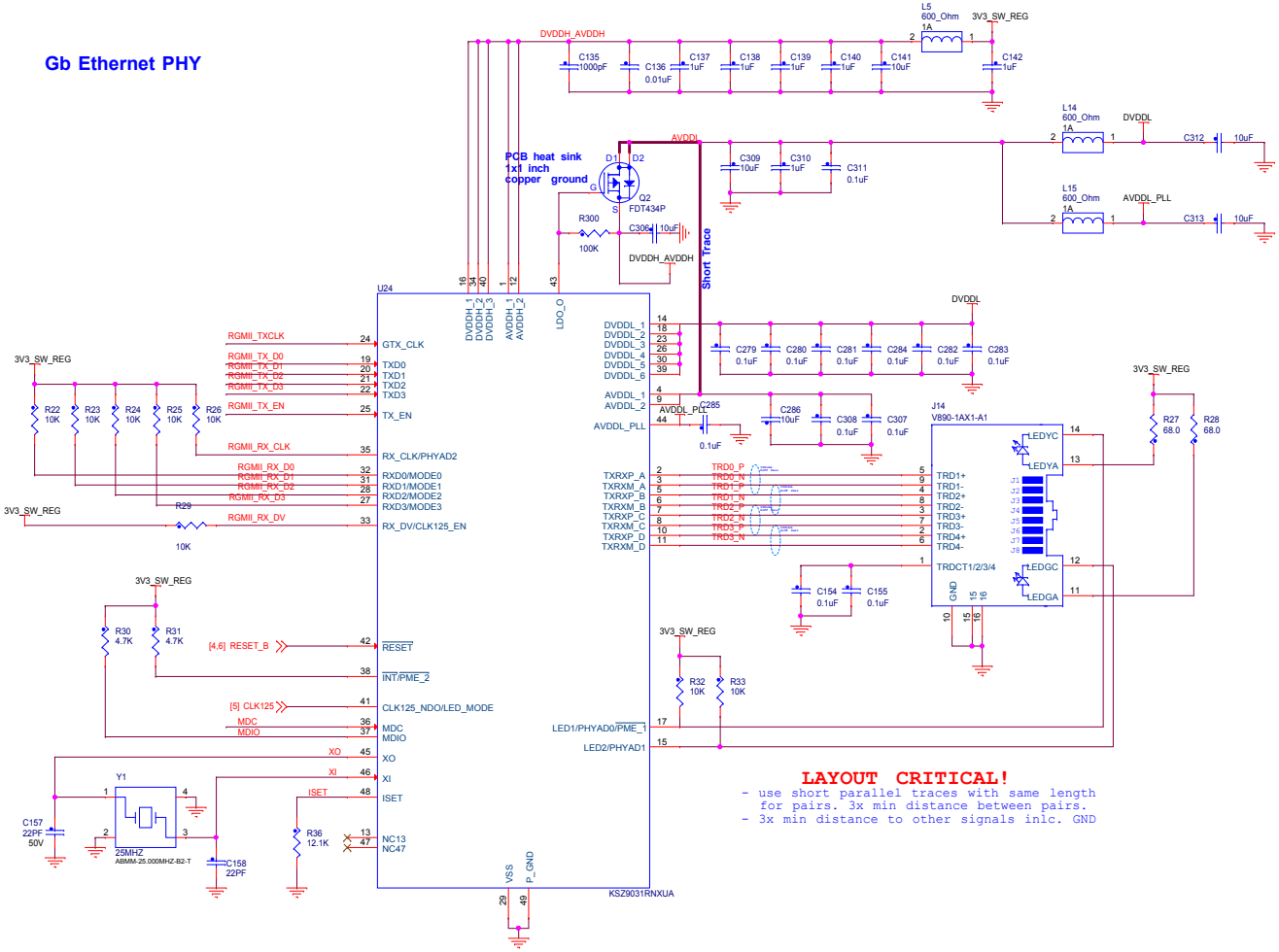

机驭智能 vehicular.ai

| | | |
|---|---|---|
| ICAP Classification: cp:___ IUO:_x_ PUBI:___ | | |
| Drawing Title: 77GHz_RADAR | | |
| PageTitle: MIPI-CSI2 | | |
| Size C | Document Number SCH: VA1701A01E PDF: VA1701A01E | Rev A1 |
| Date: Tuesday,October 10,2017 | Sheet 6 of 7 | |

## RRU Connections

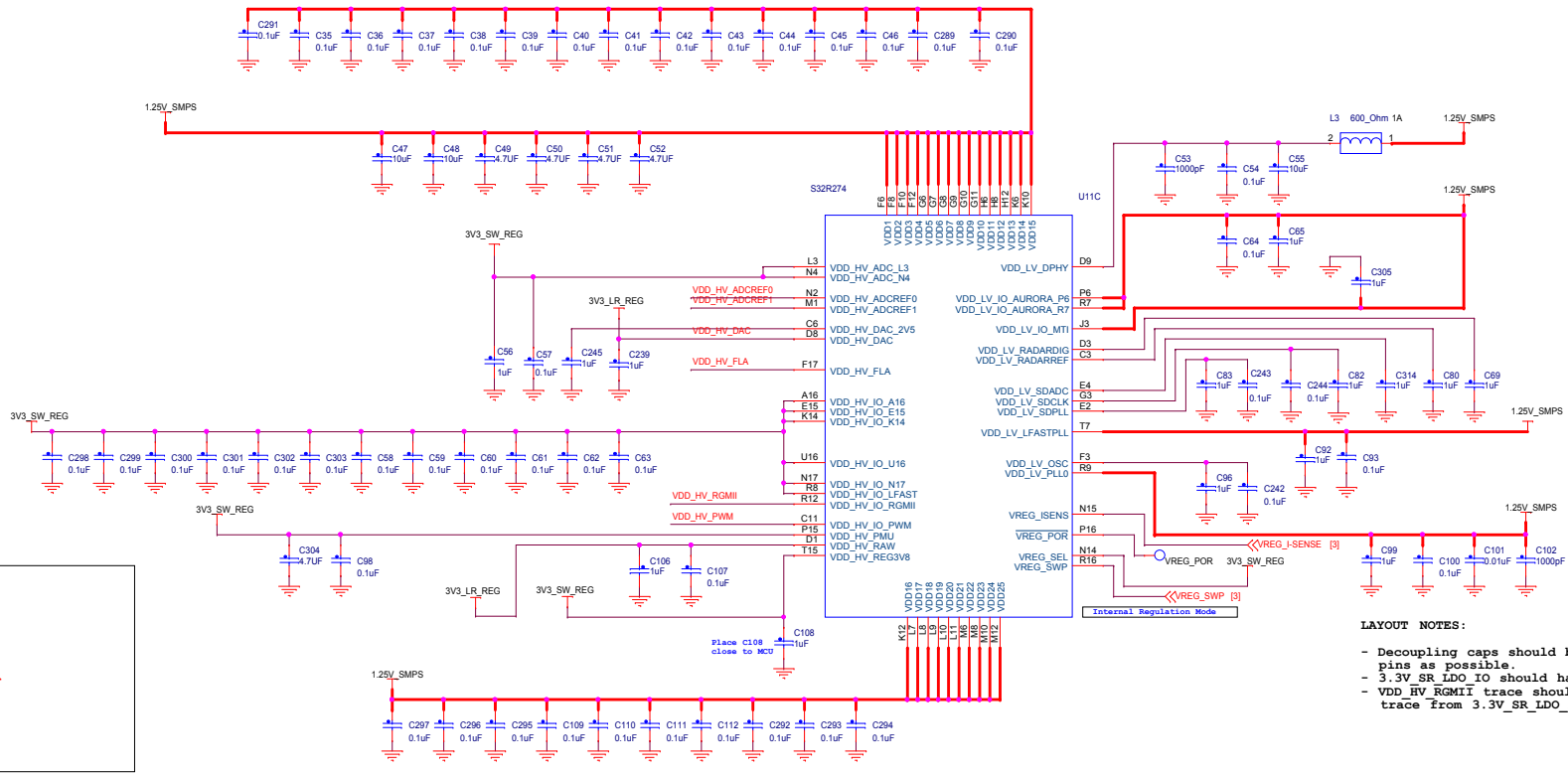



## Gb Ethernet PHY




| | | | |
|---|---|---|---|
| 机驭智能 vehicular.ai | | | |
| ICAP Classification: cp:___ IU0:_x_ PUBI:___ | | | |
| Drawing Title: 77GHz_RADAR | | | |
| PageTitle: Gb Ethernet | | | |
| Size c | Document Number SCH: VA1701A01E PDF: VA1701A01E | | Rev A1 |
| Date: Tuesday,October 10,2017 | Sheet 5 of 7 | | |

# MCU Power Connections and Decoupling

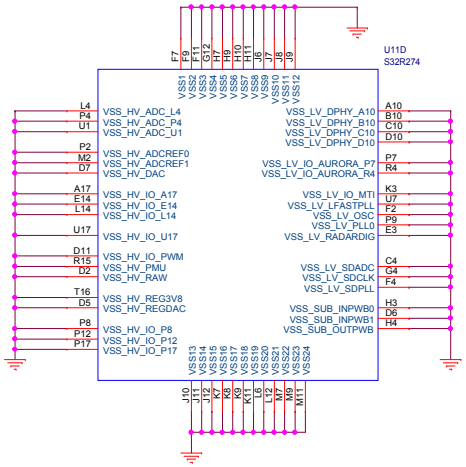



## GND Test Points

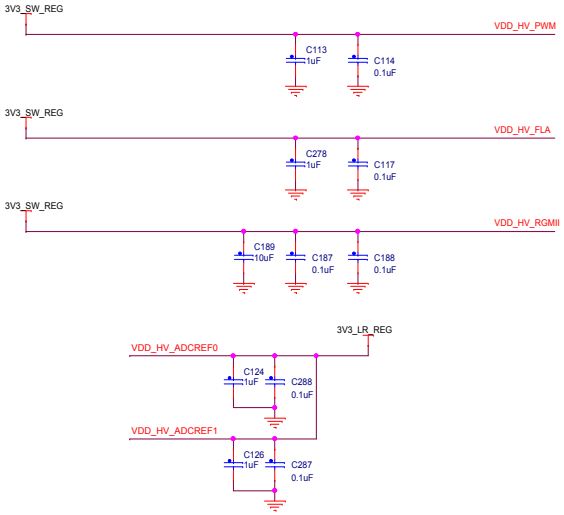

**LAYOUT NOTES:**

- Decoupling caps should be placed as close to the DUT pins as possible.
- 3.3V_SR_LDO_IO should have a wide trace length
- VDD_HV_RGMII trace should have a wide (at least 200 mil) trace from 3.3V_SR_LDO_IO.

## MCU Grounds




## Supply Decoupling

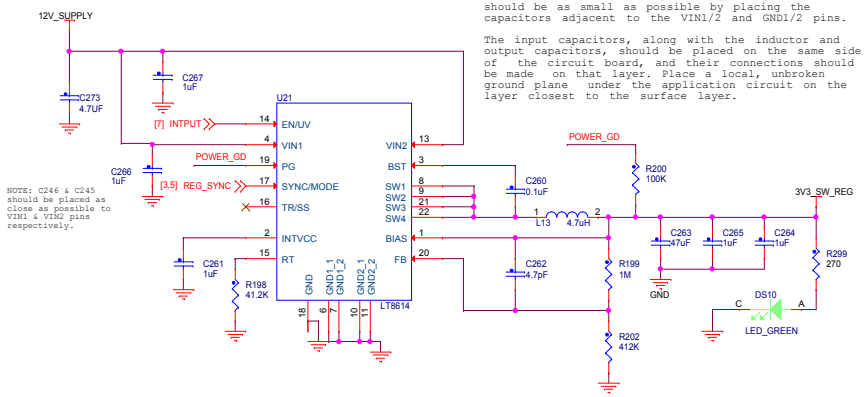



## Reset Circuit

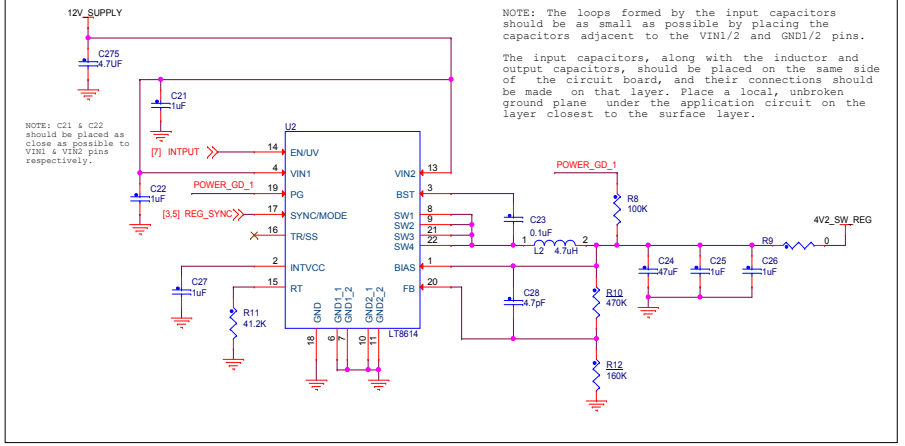

机驭智能 vehicular.ai

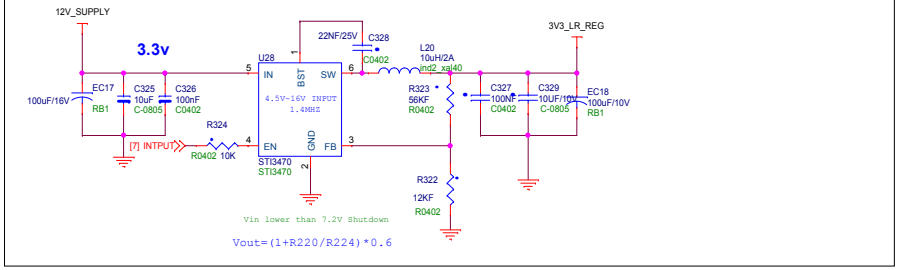
| | | | |
|---|---|---|---|
| ICAP Classification: cp: ___ IUO: x PUBI: ___ | | | |
| Drawing Title: 77GHz_RADAR | | | |
| PageTitle: Supply & Decoupling | | | |
| Size: C | Document Number: SCH: VA1701A01E PDF: VA1701A01E | | Rev: A1 |
| Date: Tuesday, October 10, 2017 | Sheet 4 of 7 | | |

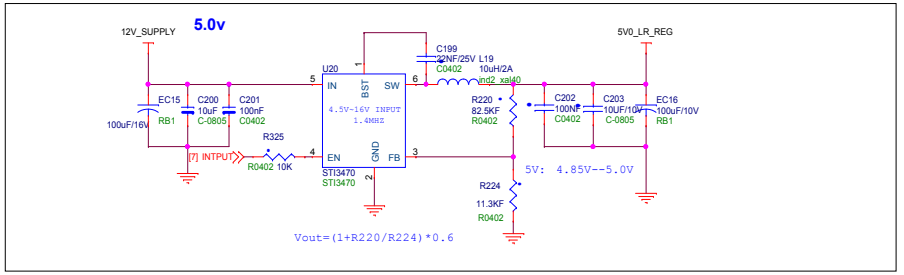
## S32R274 SWITCHING REG - 4A, 3.3V



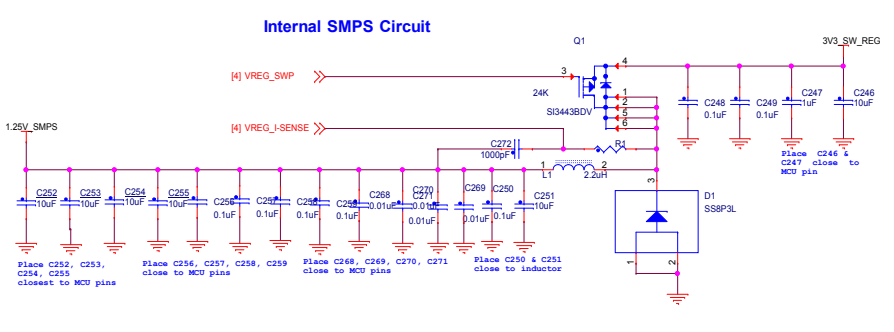

## Eagle Supply Switching Reg - 4A, 4.2V

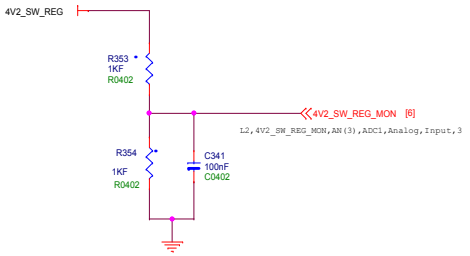



## Internal SMPS Circuit

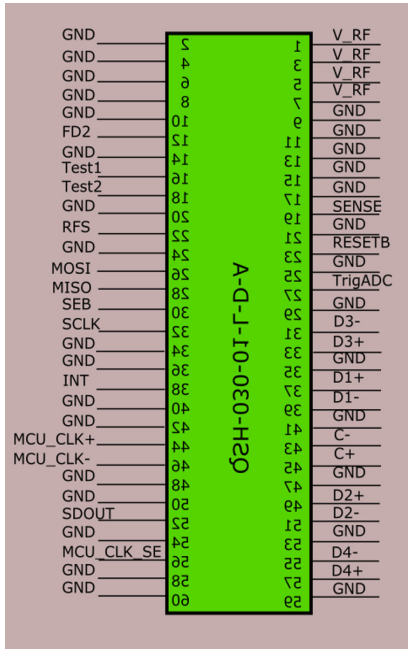


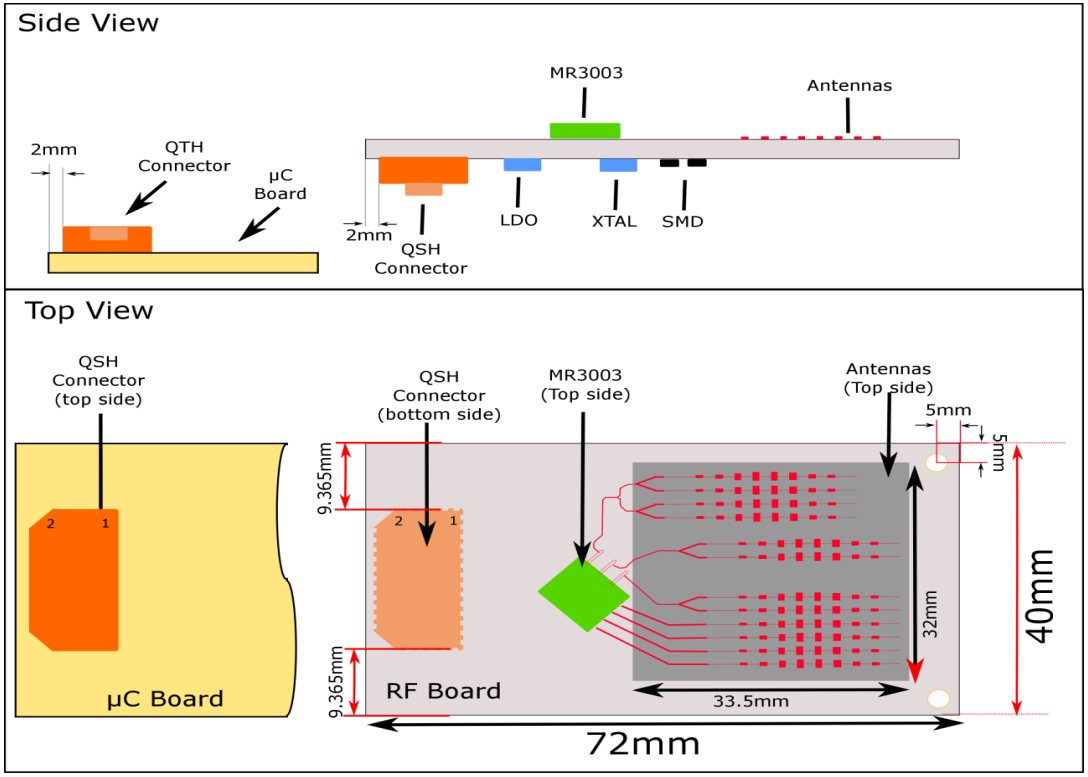

机驭智能 vehicular.ai

| | | |
|---|---|---|
| ICAP Classification: cp:___ IUO:_x_ PUBI:___ | | |
| Drawing Title: 77GHz_RADAR | | |
| PageTitle: Regulation | | |
| Size C | Document Number SCH: VA1701A01E PDF: VA1701A01E | Rev A1 |
| Date: Tuesday,October 10,2017 | Sheet 3 of 7 | |

## Eagle Connector Pinout




## Eagle Board Connector Diagram




机驭智能 vehicular.ai

| | | |
|---|---|---|
| ICAP Classification: cp:___ IUO: x PUBI:___ | | |
| Drawing Title: 77GHz_RADAR | | |
| PageTitle: NOTES | | |
| Size C | Document Number SCH: VA1701A01E PDF: VA1701A01E | Rev A1 |
| Date: Tuesday,October 10,2017 | Sheet 2 of 7 | |

Table of Contents



# S32R274-RADAR


机驭智能 ai vehicular.ai

**Automotive Product Group**
6501 William Cannon Drive West
Austin,TX 7835-8598




ICAP Classification: Cp: IUO: X PUBI:

| | | |
|---|---|---|
| Designer: Andrew Robertson | Drawing Title: 77GHz_RADAR | |
| Drawn by: Andrew Robertson | PageTitle: TITLE, TOC & REV | |
| Approved: Andrew Robertson | Size C | Document Number SCH:VA1701A01E PDF:VA1701A01E | Rev A1 |
| | Date: Tuesday,October 10,2017 | Sheet 1 of 7 | |