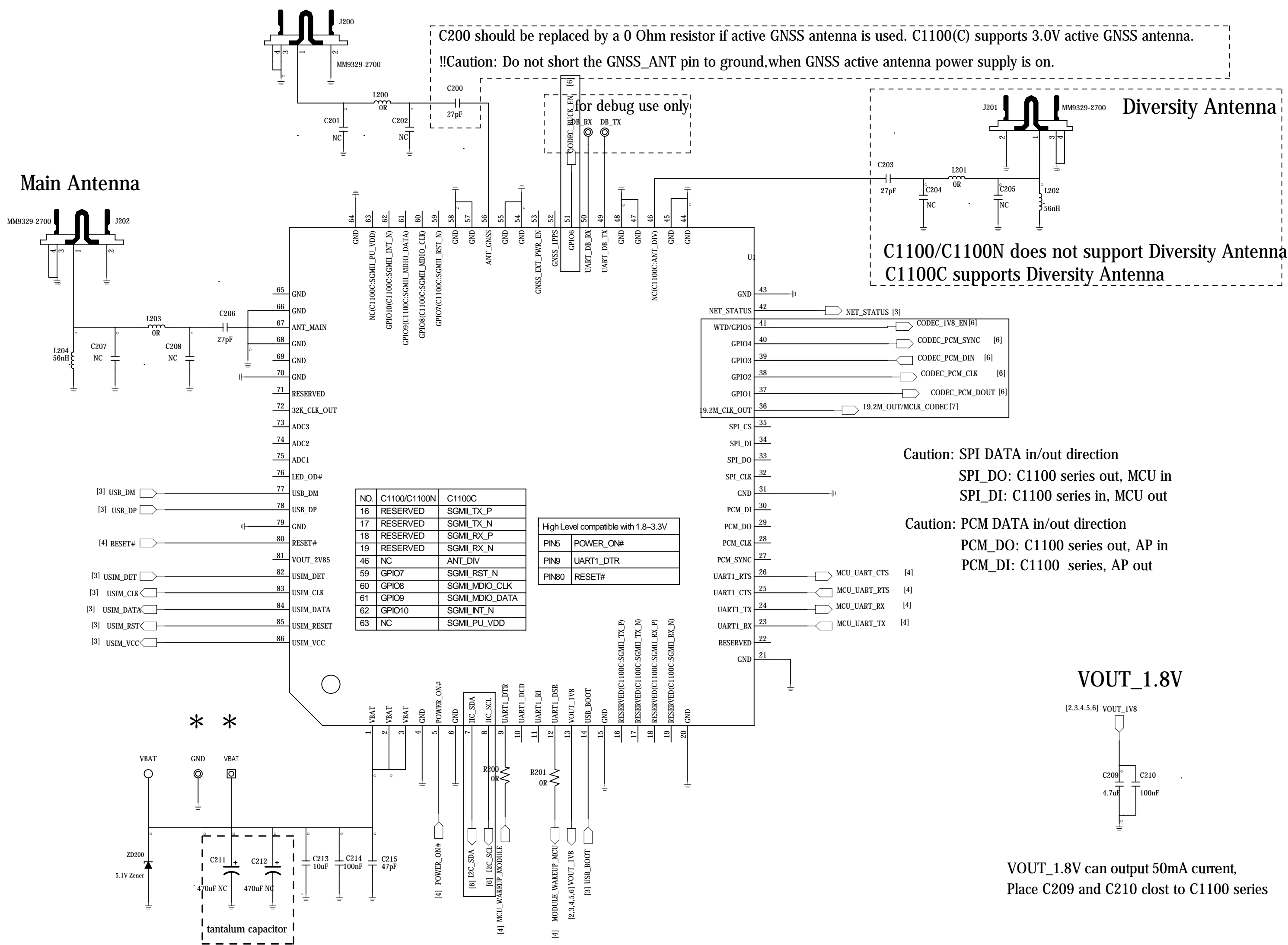


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<div>History</div> <table><thead><tr><th>Number</th><th>Revision</th><th>Description</th><th>Author</th><th>Time</th></tr></thead><tbody><tr><td>1</td><td>V1.0</td><td>New</td><td>Liu Zhongrong</td><td>2017-2-10</td></tr><tr><td>2</td><td>V1.1</td><td>1.Modify the C1100 footprint 2.Add a sample circuit for levelshift.</td><td>ZhongMing</td><td>2017-3-16</td></tr><tr><td>3</td><td>V1.2</td><td>1.Change the footprint of C1100(C),modify the SPI DO/DI pin number 2.Add description POWER_ON# pin of C1100(C)</td><td>ZhongMing</td><td>2017-4-7</td></tr><tr><td>4</td><td>V2.0</td><td>1.Modify footprint of C1100 series 2.Modify footprint of C1100 series</td><td>ZhongMing</td><td>2017-6-27</td></tr><tr><td>5</td><td>V2.1</td><td>1.add codec WCD9330</td><td>GuoLeitao</td><td>2017-9-20</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>										Number	Revision	Description	Author	Time	1	V1.0	New	Liu Zhongrong	2017-2-10	2	V1.1	1.Modify the C1100 footprint 2.Add a sample circuit for levelshift.	ZhongMing	2017-3-16	3	V1.2	1.Change the footprint of C1100(C),modify the SPI DO/DI pin number 2.Add description POWER_ON# pin of C1100(C)	ZhongMing	2017-4-7	4	V2.0	1.Modify footprint of C1100 series 2.Modify footprint of C1100 series	ZhongMing	2017-6-27	5	V2.1	1.add codec WCD9330	GuoLeitao	2017-9-20																																													
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<div>Important Notice</div> <div>* In order to convenient to upgrade the software, The below test points must be reserved</div> <div>1.USB_BOOT 2.USBDP 3.USBDM 4.VBAT 5.POWER_ON# 6.GND</div> <div>!!!Caution: C1100 series can only be upgraded by USB.</div>																																																																																				
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C1100

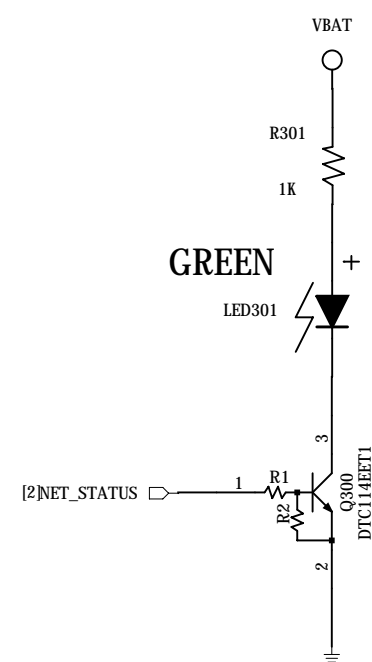
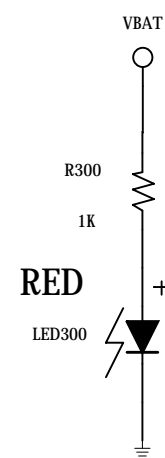
ANT_GNSS支持有源天线供电，请勿将该管脚短接到地，否则有损坏模块的风险！！！！
GNSS Antenna

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INDICATOR LED



NET_STATUS can indicate the work state of Module

Testpoints requirement for upgrading

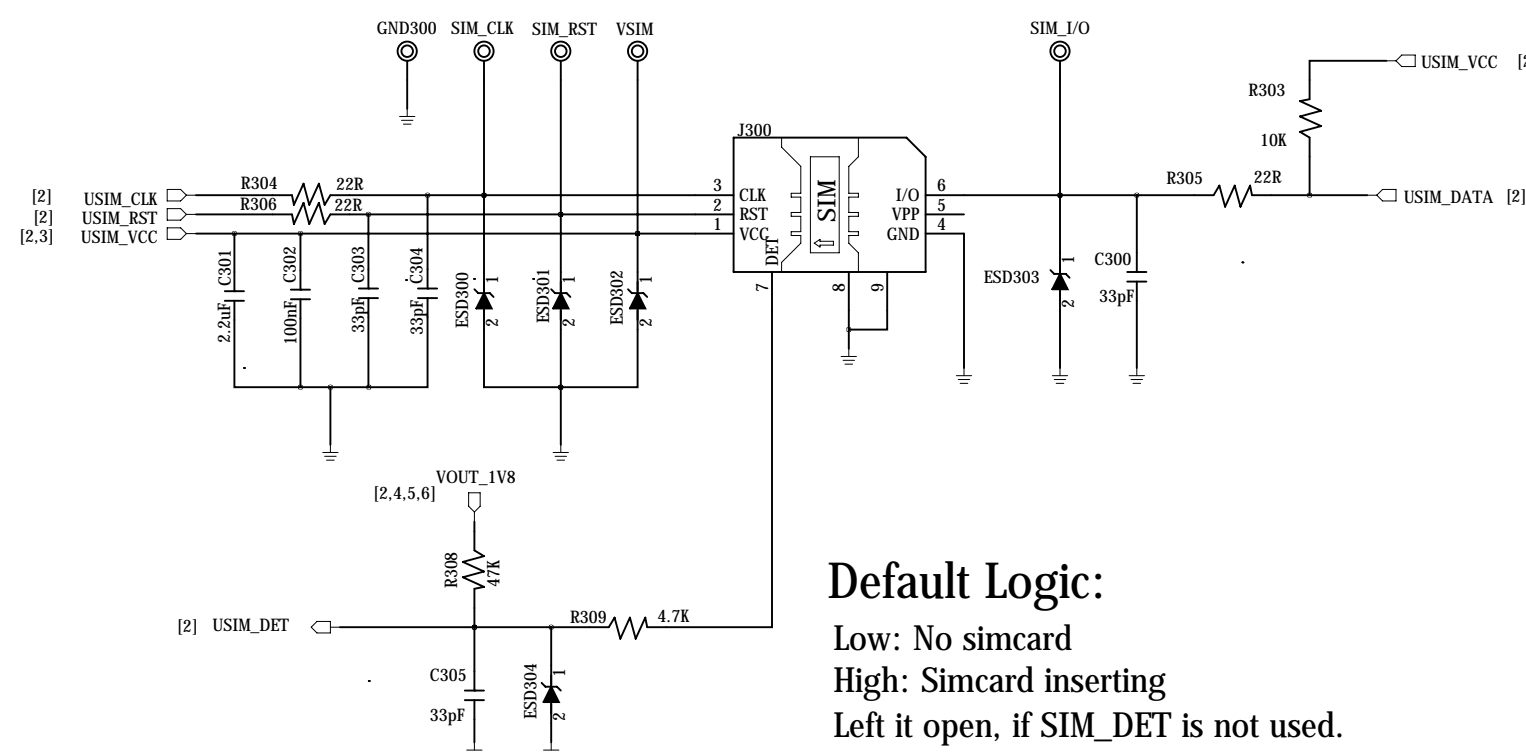
* In order to convenient to upgrade the software,
The below test points must be reserved

- 1.USB_BOOT
- 2.USB_DP
- 3.USB_DM
- 4.VBAT
- 5.POWER_ON#
- 6.GND

!!!Caution: C1100 can only be upgraded by USB.

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SIMCARD



No simcard inserting, USIM_DET should be set to low.
After simcard inserting, USIM_DET should be set to high.
Please choose the simcard holder which match the logic level of detecting pin.

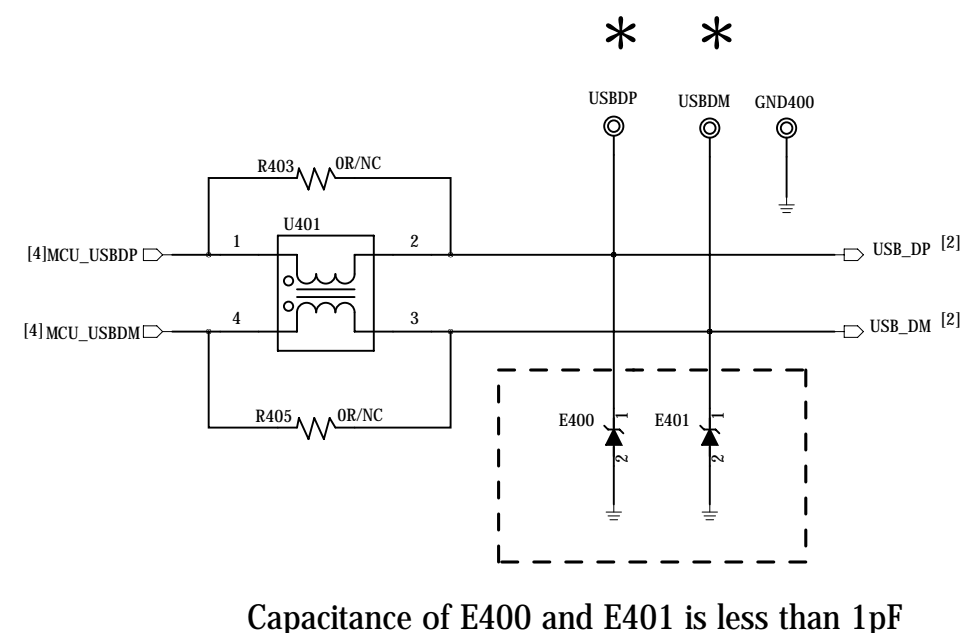
```

**Support configuring the simcard detect logic by AT command:
    AT+LSUIMHSPOL=0 ----- High Level means card inserted
    AT+LSUIMHSPOL=1 ----- High Level means card inserted:

```

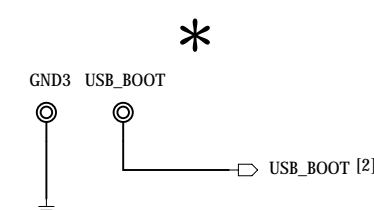
If SIMcard insert detect function is not used, please leave USIM_DET open.

USB



Emergent download

Pull USB_BOOT(pin14) low before POWER_ON# active will trigger C1100(C) boot from USB

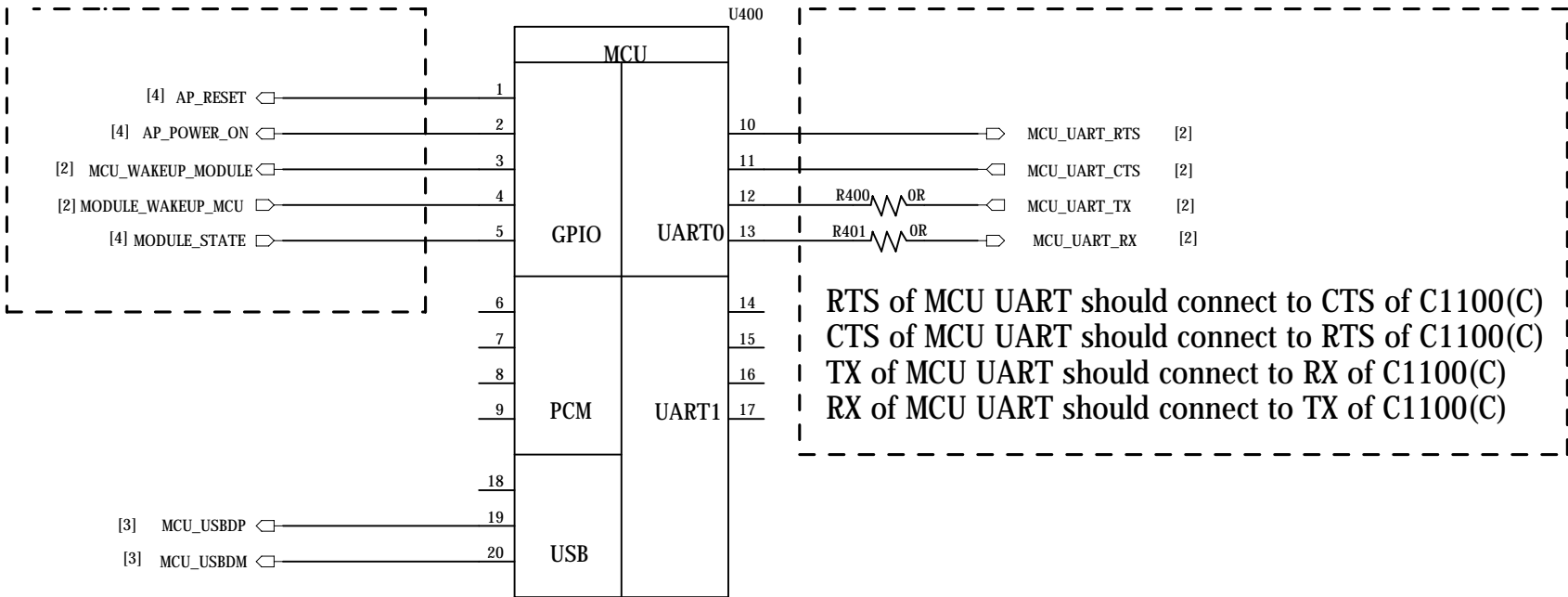


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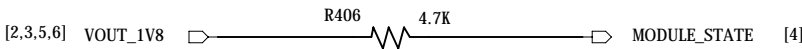
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TITLE:			
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SCALE:		SHEET: 3 OF 7	

AP MCU

All MODULE I/O ports are 1.8V level.
You must add a level shift circuit if MCU are not 1.8V.
You can float these pins if you don't use the function



MODULE_STATE

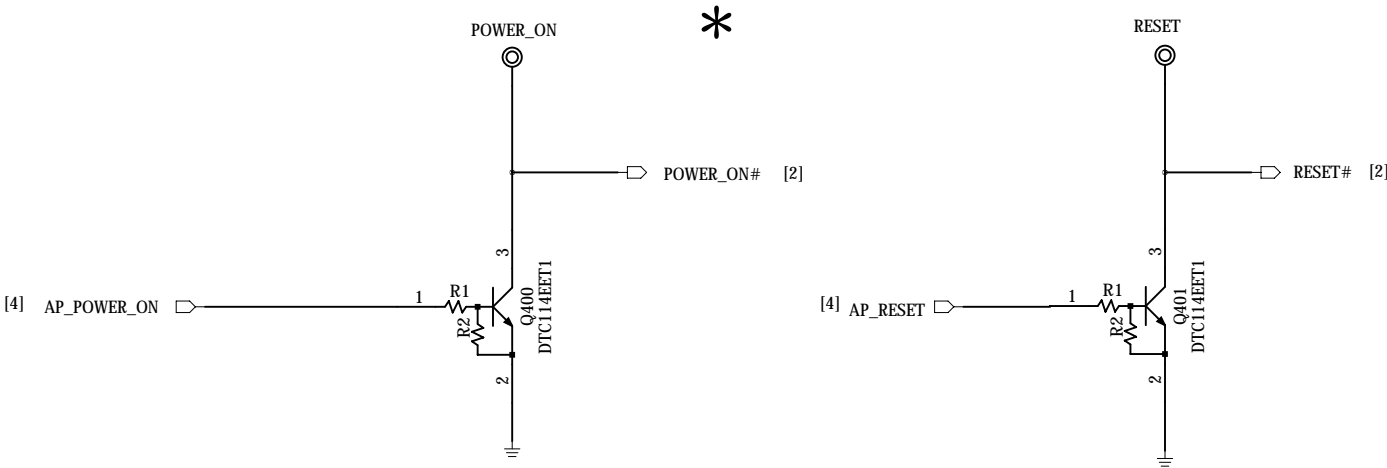


VOUT_1V8 can indicate AP MCU whether C1100 has powered on by connecting with a GPIO of AP MCU.

UART TESTPOINTS



POWER_ON and RESET



Pull POWER_ON# low more than 2 seconds can trigger C1100 to power on
POWER_ON#(PIN 5) has be pulled up to 0.8V in C1100(C), the VLmax=0.5V

Pull RESET# low more than 100 milliseconds can reset C1100
RESET#(PIN 74) has be pulled up to 1.8V in C1100(C)

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1

Level shift sample circuit

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D

C

B

A

这里提供了一个采用NPN管实现的低成本UART电平转换电路示例图

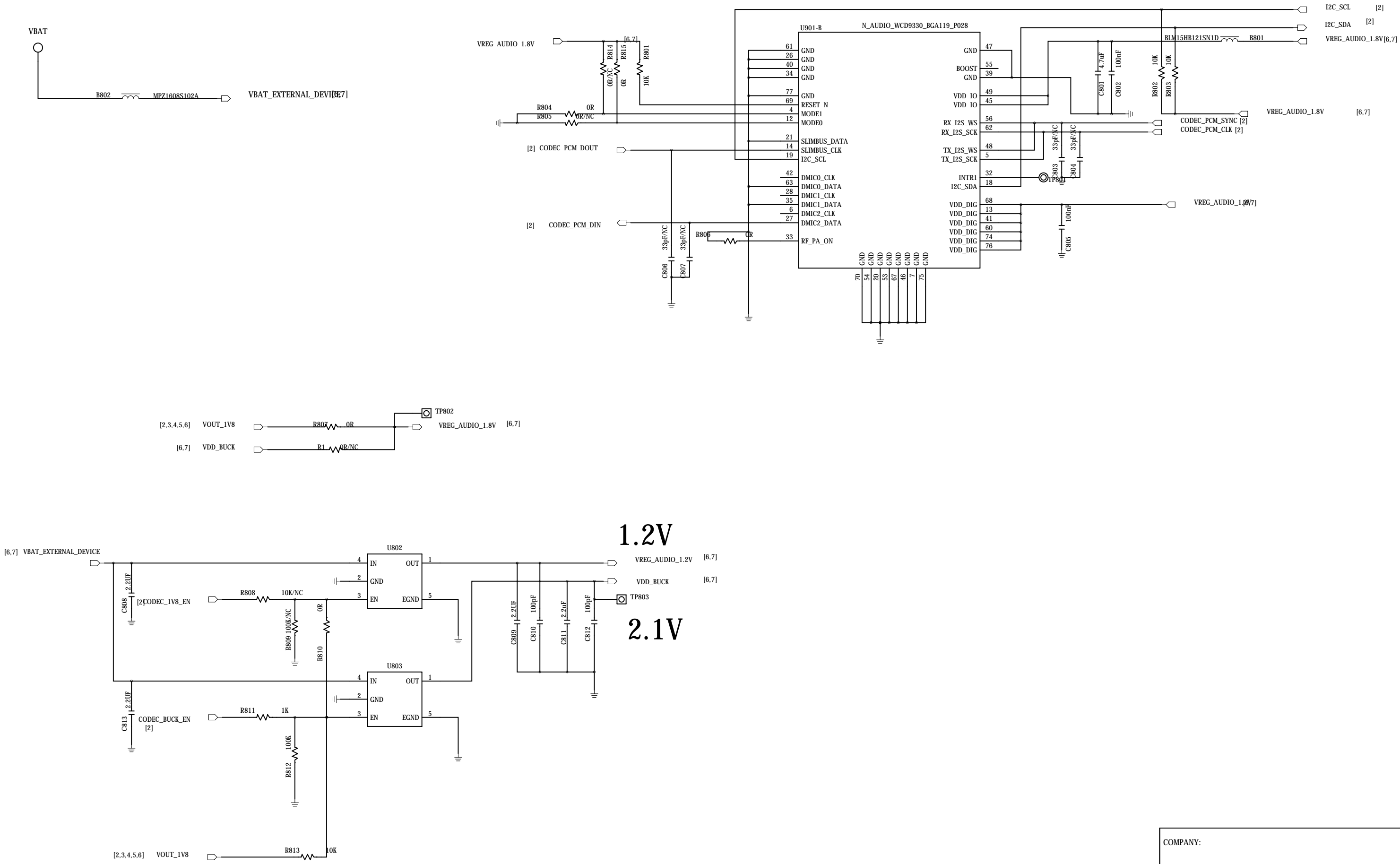
VDDIO_AP is the VDDIO of AP MCU.

If the UART voltage level of AP are 5V or 3.3V.You must add a level shift circuit.
This sample circuit is used for low-cost level shift funciton of UART.(1.8V to 3.3V/5V)
Because of the shift speed of NPN, the baudrate is not suggested to exceed 115200bps.

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WCD9330_DIGITAL

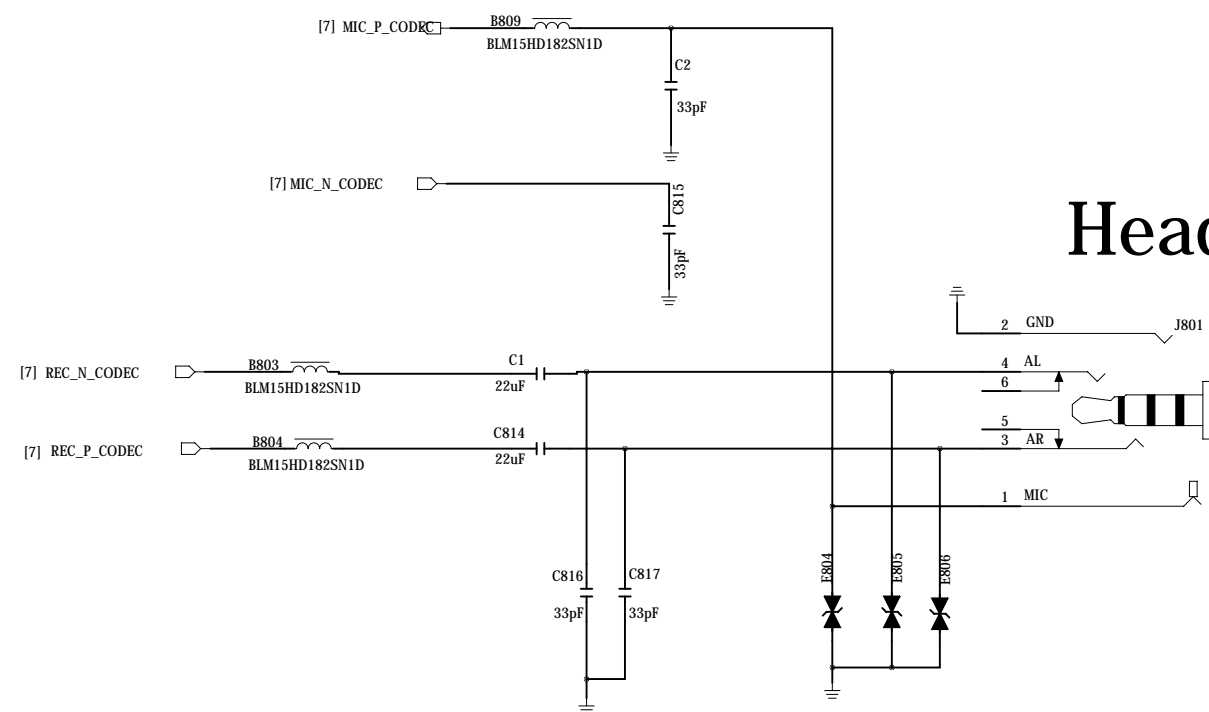
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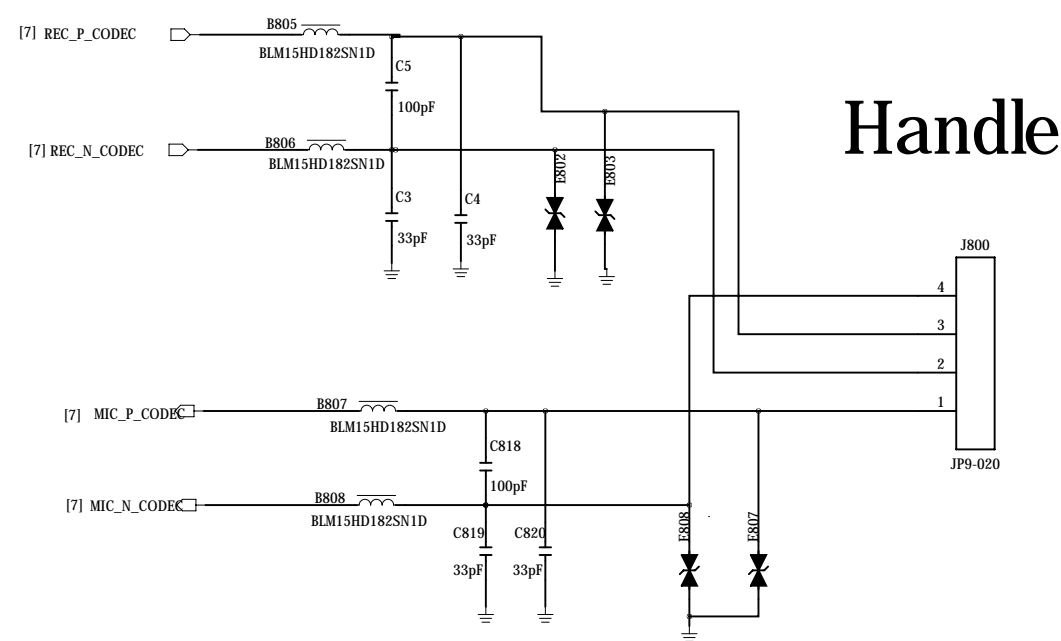
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		SCALE:			SHEET: 6 OF 7				

WCD9330_ANALOG

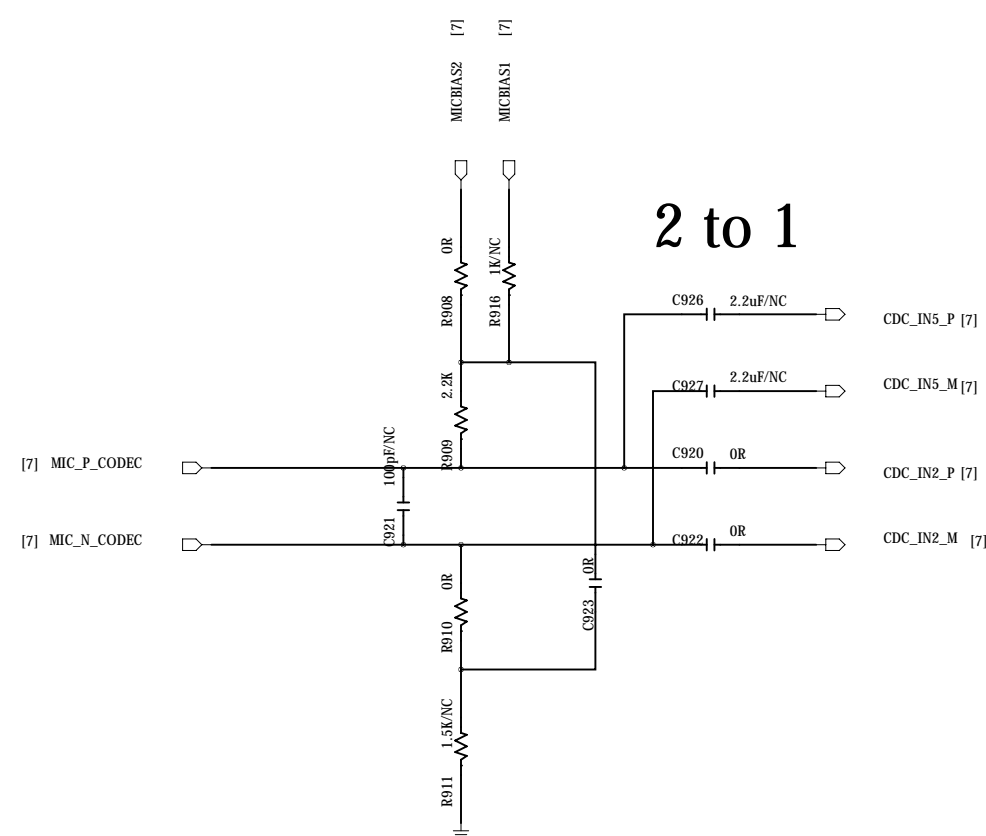
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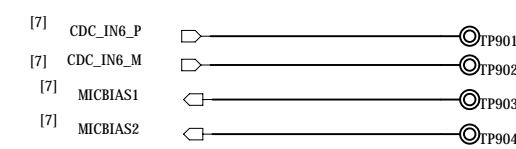
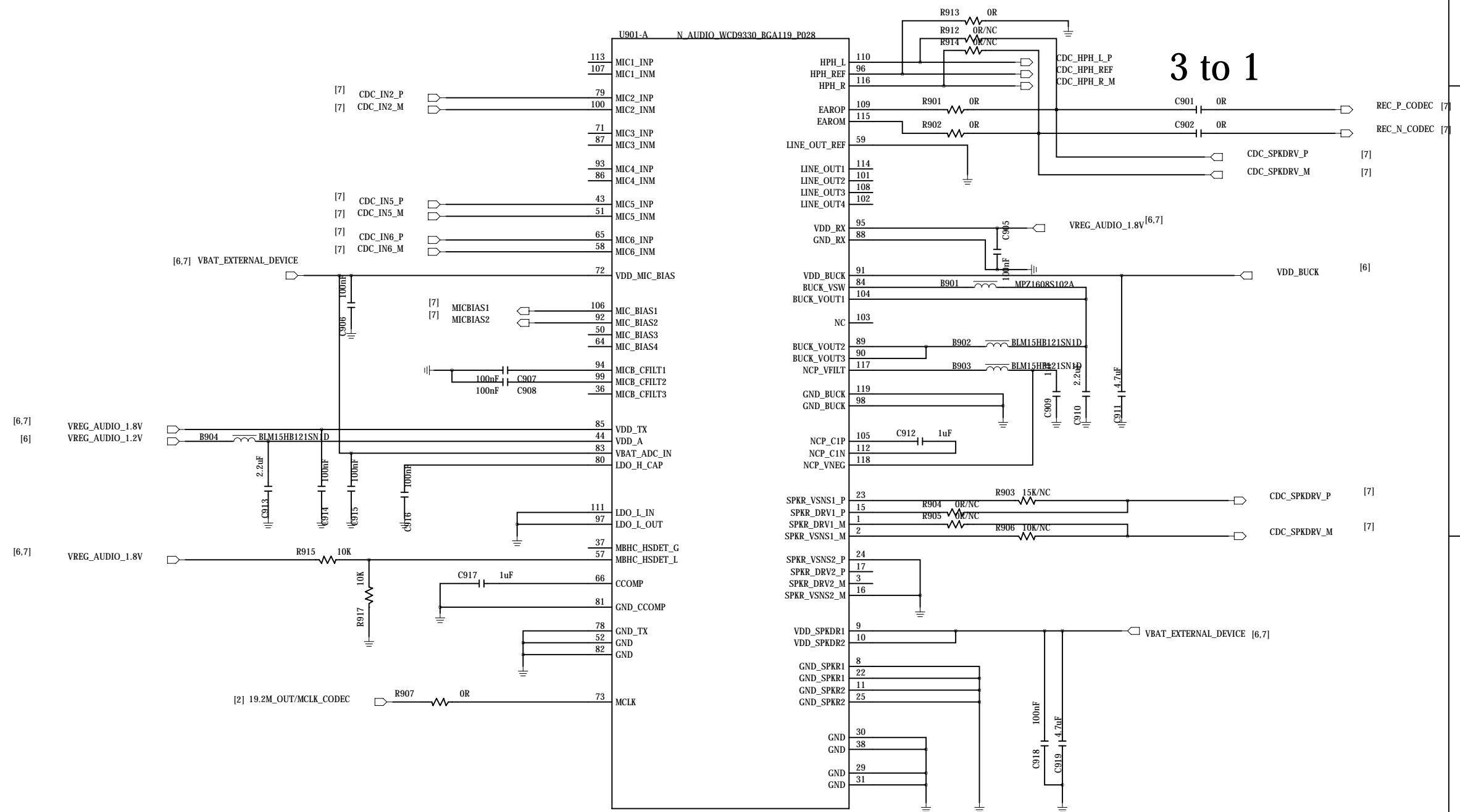
Headset



Handle



2 to 1



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