

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------|------|--------------------|--------|---|---|---|--|------|------|------|----------|--|--|--------------------|------------|--|--|------------------|-------------|--|--|--------|-------------|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | | | | | | | | |
| ANT10 LB_PRX+MHB_PRX+n41_PRX(SA) | | | | | | ANT4 n41_DRX MIMO | | | | | | | | | | | | | | | | | | | | |
| ANT2 LB_DRX | | | | 主板接地弹片 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 螺钉垫片 | | | | | | | | | | | | | | | | | | | | | | |
| ANT3 MHB_DRX+n41_DRX(SA) | | | | | | 空口检测 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | <div></div> | | | | | | | | | | | | | | | | | | | | |
| | | | | | | <table><tr><td></td><td>Sign</td><td>Date</td><td>Type</td></tr><tr><td>Drawn By</td><td></td><td></td><td>Draw No: Schematic</td></tr><tr><td>Checked By</td><td></td><td></td><td>Sheet of 74 Ver:</td></tr><tr><td>Standard By</td><td></td><td></td><td rowspan="2">realme</td></tr><tr><td>Approved By</td><td></td><td></td></tr></table> | | | Sign | Date | Type | Drawn By | | | Draw No: Schematic | Checked By | | | Sheet of 74 Ver: | Standard By | | | realme | Approved By | | |
| | Sign | Date | Type | | | | | | | | | | | | | | | | | | | | | | | |
| Drawn By | | | Draw No: Schematic | | | | | | | | | | | | | | | | | | | | | | | |
| Checked By | | | Sheet of 74 Ver: | | | | | | | | | | | | | | | | | | | | | | | |
| Standard By | | | realme | | | | | | | | | | | | | | | | | | | | | | | |
| Approved By | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|-------------|------|------|----------|-----------|---------|
| | Sign | Date | Type: | | |
| Drawn By | | | Draw No: | Schematic | |
| Checked By | | | Sheet | of | 74 Ver: |
| Standard By | | | | | |
| Approved By | | | | | |

realme

LB Pamid

| | | | | |
|-------------|------|------|--------------------|------------|
| | Sign | Date | Type: | |
| Drawn By | | 17 | Draw No: Schematic | |
| Checked By | 17 | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A | | | | ↓ | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| → | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |


| | | | | |
|-------------|------|------|----------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: | Schematic |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| | | | | |
|-------------|------|------|-------------------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: A2SHEET | |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | <div>realme</div> | |
| Approved By | | | | |

QET6100 for 5G

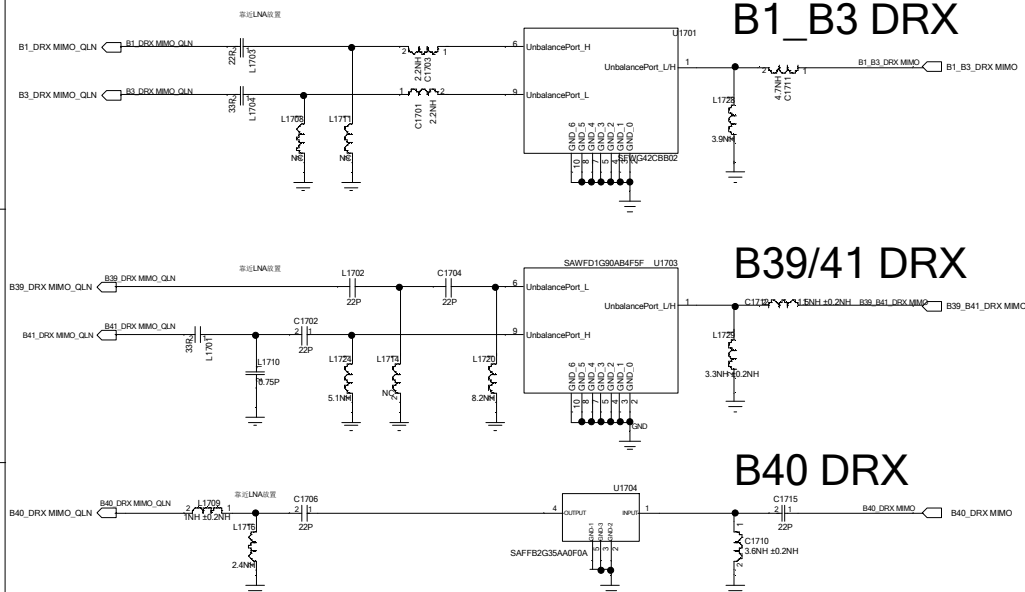


| | | | |
|-------------|------|------|---|
| | Sign | Date | Type: |
| Drawn By | | | Draw No: Schematic |
| Checked By | | | Sheet of 74 Ver: |
| Standard By | | |  |
| Approved By | | | |

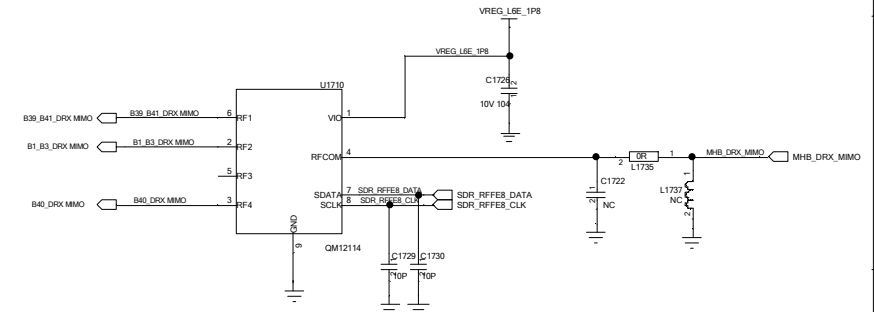
A

F


realme



DRX MIMO



PRX MIMO

| | | | | |
|-------------|------|------|---|------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: Schematic | |
| Checked By | | | Sheet of 74 | Ver: |
| Standard By | | |  | |
| Approved By | | | | |

A

B

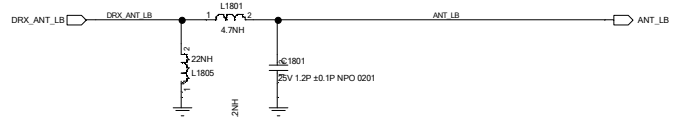
C

D

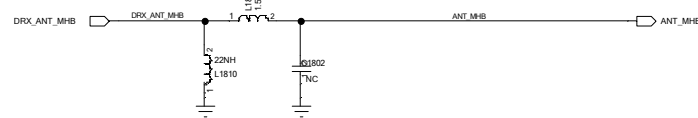
E

F

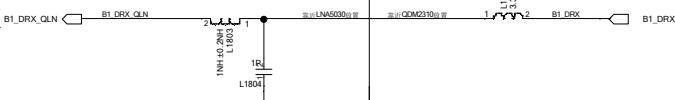
Ant_LB



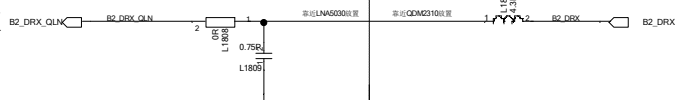
Ant_MHB



B1_DRX



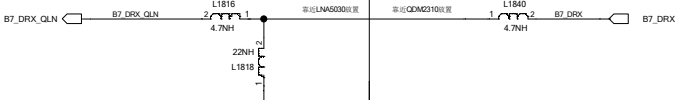
B2_DRX



B3_DRX



B7_DRX



B8_DRX



B26_DRX



B34_DRX



B39_DRX



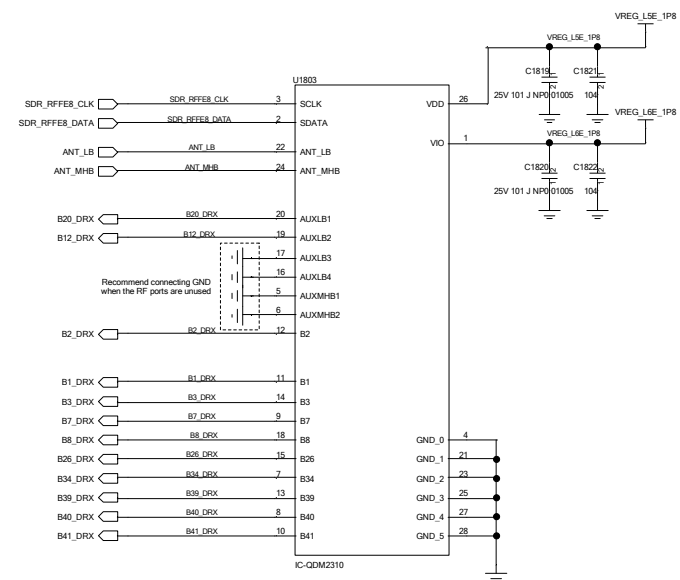
B40_DRX



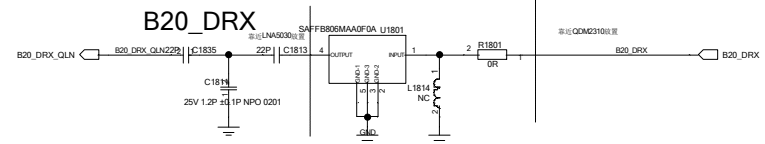
B41_DRX



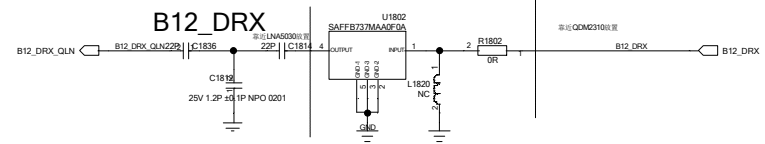
DRX Module



B20_DRX



B12_DRX



| Drawn By | Sign | Date | Type |
|-------------|------|------|--------------------|
| Checked By | | | Draw No: Schematic |
| Standard By | | | Sheet of 74 Ver: |
| Approved By | | | |

realme

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

| | | | | |
|-------------|------|------|------------------|-----------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: A2SHEET | |
| Checked By | | | Sheet | of 2 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |

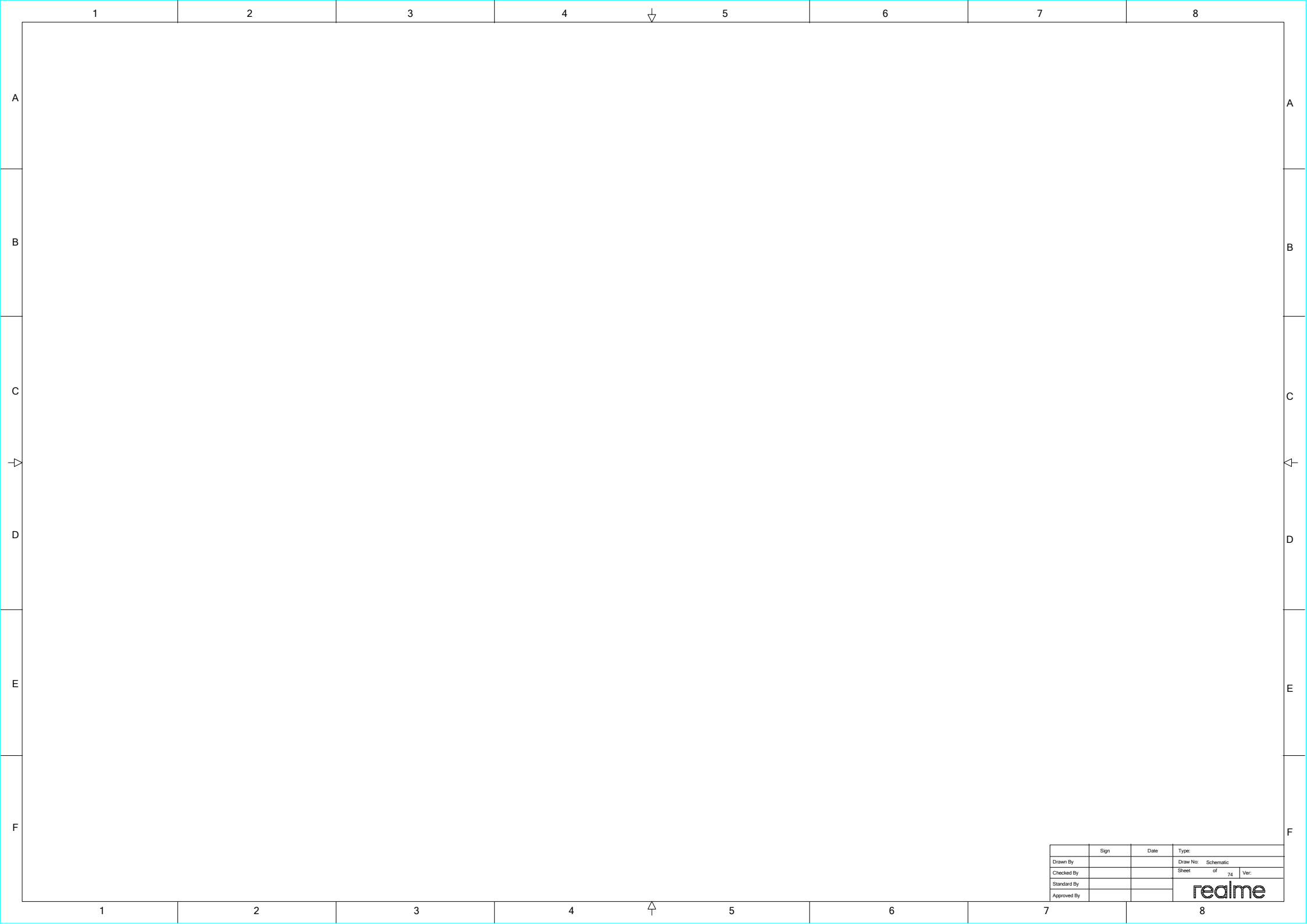
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

| | | | | |
|-------------|------|------|------------------|-----------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: A2SHEET | |
| Checked By | | | Sheet | of 2 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |



All Tx ports are DC grounded. If the switch, PA requires non-zero DC, then a series DC blocking cap is needed.

| | | | | |
|-------------|-------|-----------|----------|------------|
| | Sign | Date | Type: | |
| Drawn By | Elvis | 201401/15 | Draw No: | Schematic |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |



1

2

3

4

5

6

7

8

A

B

C

D

E

F

A

B

C

D

E

F



| | | | | |
|-------------|------|------|----------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: | Schematic |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |

1

2

3

4

5

6

7

8

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

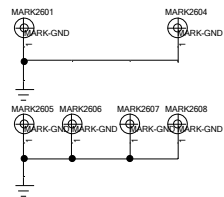
| | Sign | Date | Type |
|-------------|------|------|------------------|
| Drawn By | | | Draw No: A28HEET |
| Checked By | | | Sheet of 2 Ver: |
| Standard By | | | |
| Approved By | | | |



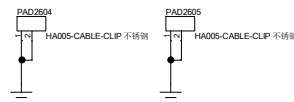
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

| | | | | |
|-------------|------|------|------------------|-----------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: A2SHEET | |
| Checked By | | | Sheet | of 2 Ver: |
| Standard By | | | oppo | |
| Approved By | | | | |

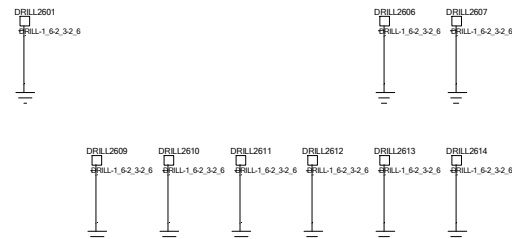
MARK POINT



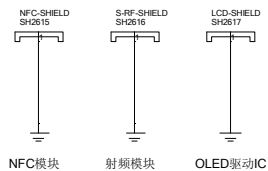
线夹



螺钉



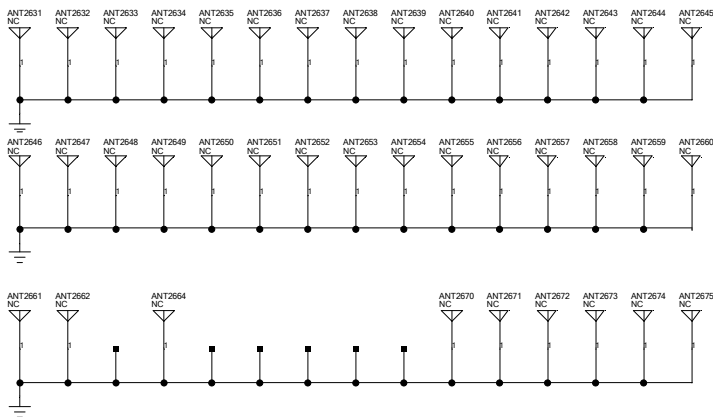
屏蔽支架



垫高板贴片位号



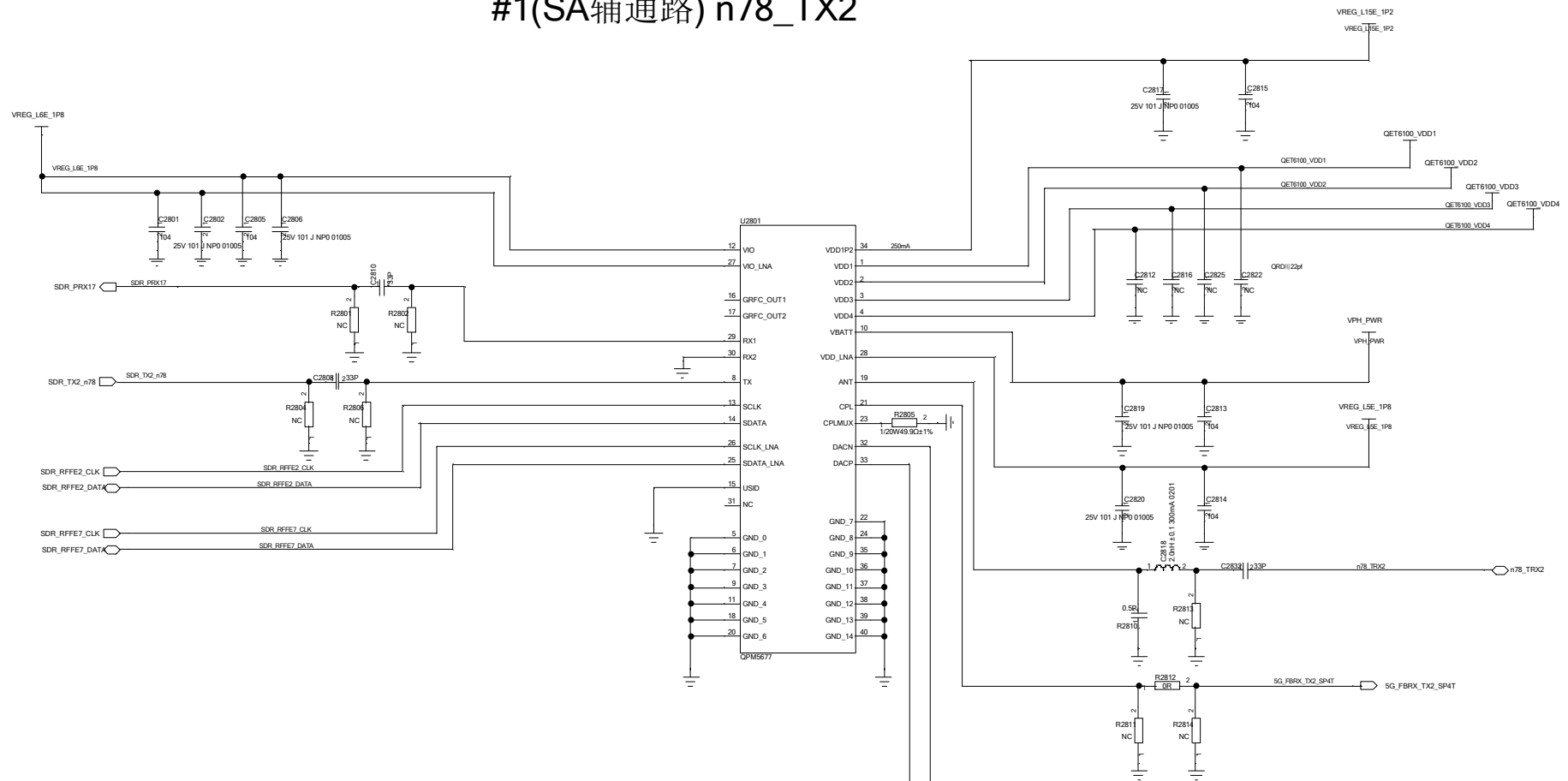
叠层板小垫片



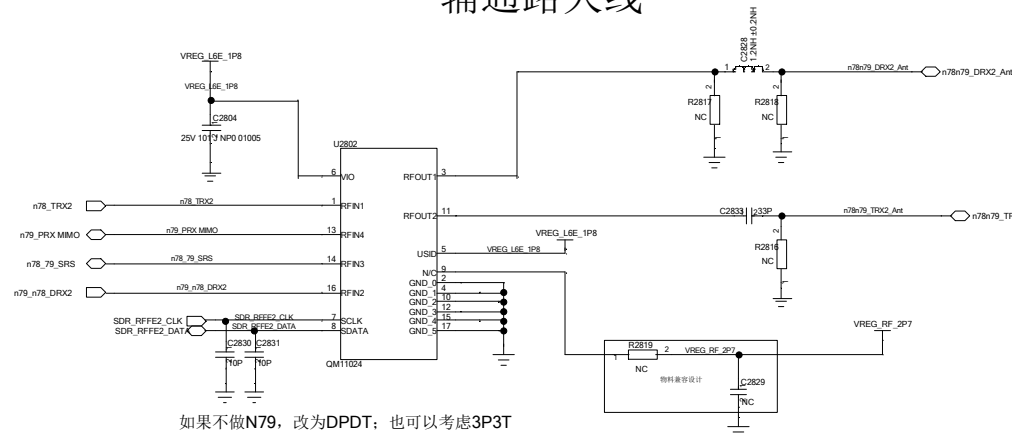
| | | | |
|-------------|------|------|--------------------|
| | Sign | Date | Type: |
| Drawn By | | | Draw No: Schematic |
| Checked By | | | Sheet of 74 Ver: |
| Standard By | | | |
| Approved By | | | |

realme

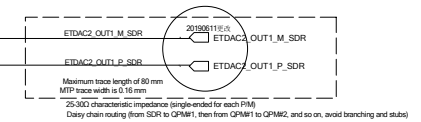
#1(SA辅通路) n78_TX2




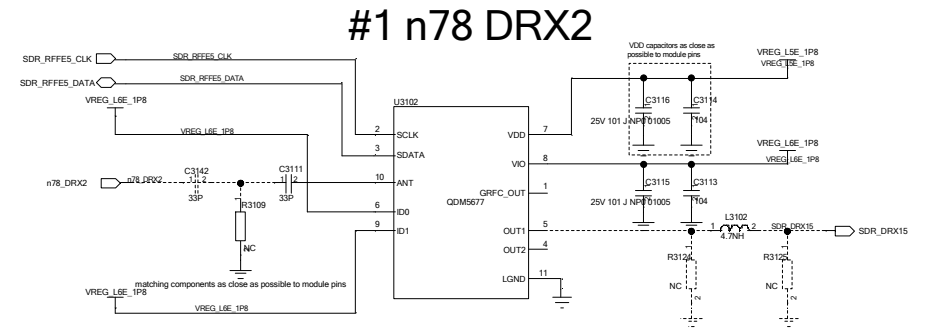
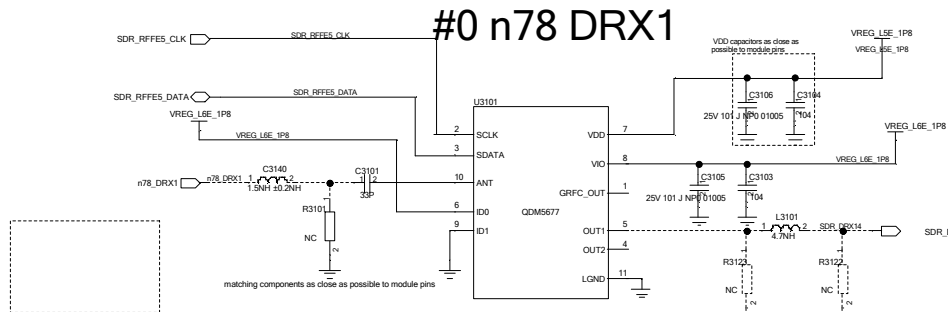
DP4T #1 (only 1T2R)
辅通路天线



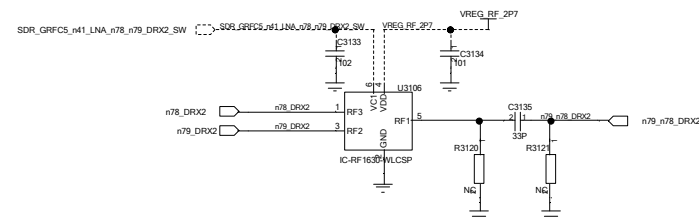
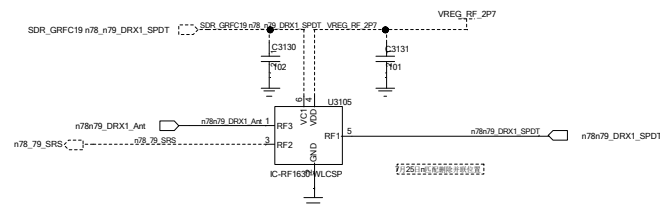
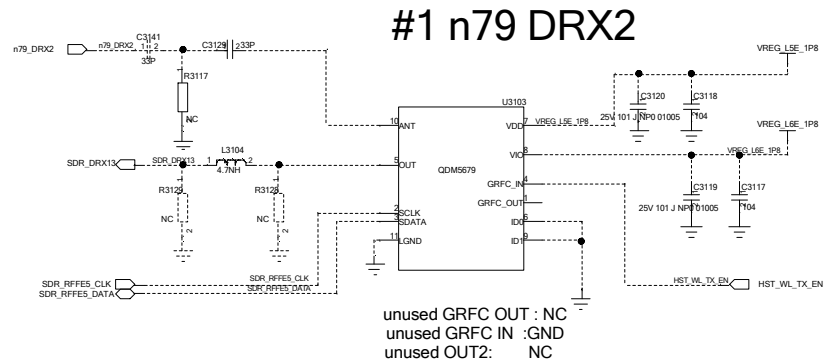
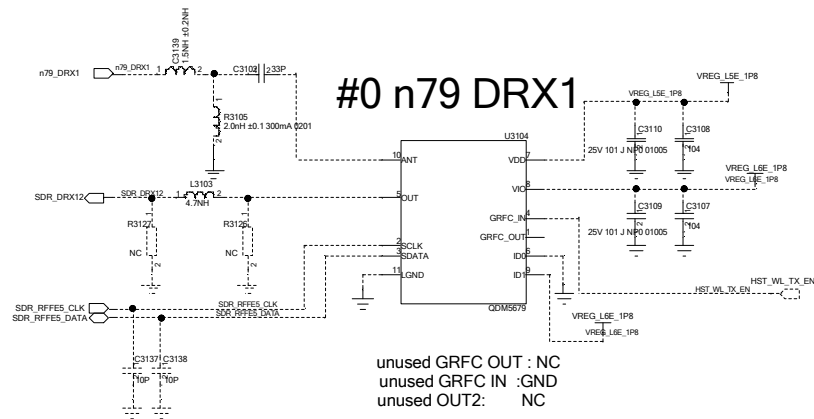
如果不做N79, 改为DPDT; 也可以考虑3P3T



| | | | | |
|-------------|------|------|---|------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: Schematic | |
| Checked By | | | Sheet of 74 | Ver: |
| Standard By | | |  | |
| Approved By | | | | |



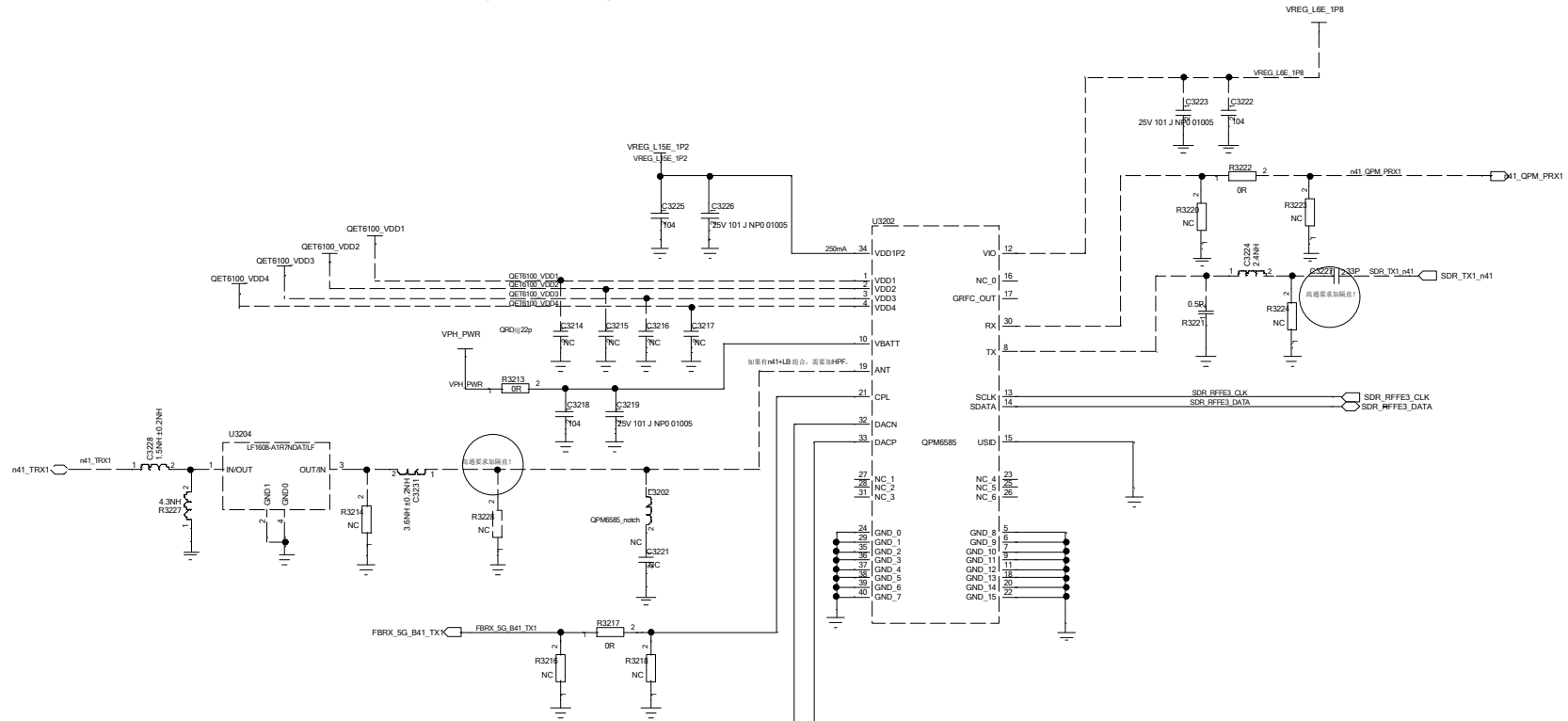
Minimize distance to antenna side to have better noise figure performance
L-DRxmodules should not be in the same shielding cavity with the PA device which is active same time
Place all peripheral components (bypass capacitors, matching networks, and so on) as close as possible to the L-DRxmodule.



| Drawn By | Sign | Date | Type |
|-------------|------|------|--------------------|
| Checked By | | | Draw No: Schematic |
| Standard By | | | Sheet of 74 Ver: |
| Approved By | | | |

realme

#0(主通路) n41_TX1

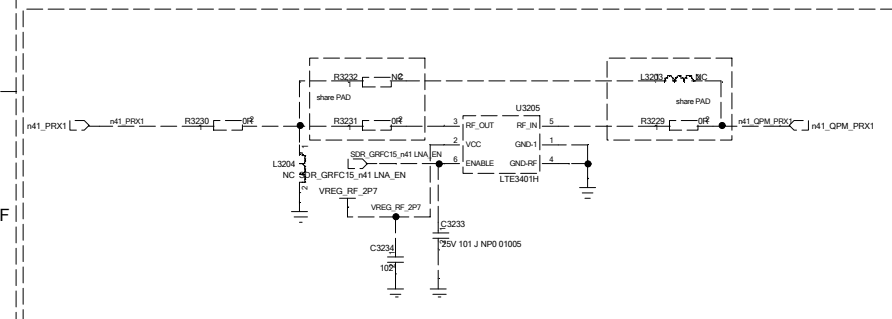


ETDAC1_OUT1_M_SDR

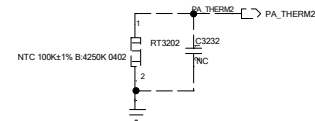
ETDAC1_OUT1_P_SDR


Maximum trace length of 80 mm
MTP trace width is 0.16 mm

25-300 characteristic impedance (single-ended for each PIM)
Daisy chain routing (from SDR to QPM#1, then from QPM#1 to QPM#2, and so on, avoid branching and stubs)



Put Thermistor close to n41 PA



| | | | |
|-------------|------|------|---|
| | Sign | Date | Type: |
| Drawn By | | | Draw No: Schematic |
| Checked By | | | Sheet of 74 Ver: |
| Standard By | | |  |
| Approved By | | | |

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| | Sign | Date | Type |
|-------------|------|------|------------------|
| Drawn By | | | Draw No: A28HSET |
| Checked By | | | Sheet of 2 Ver: |
| Standard By | | | |
| Approved By | | | |



| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| | | | |
|-------------|------|------|------------------|
| | Sign | Date | Type |
| Drawn By | | | Draw No: A288EET |
| Checked By | | | Sheet of 2 Ver: |
| Standard By | | | |
| Approved By | | | |



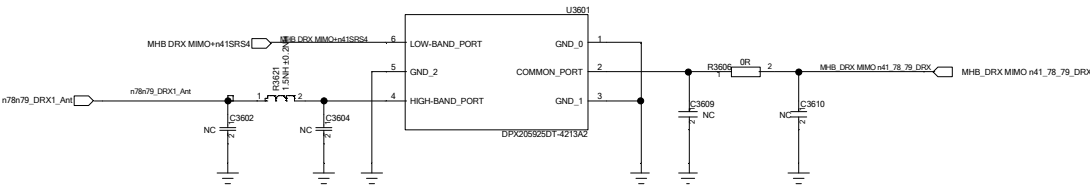
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

| | | | |
|-------------|------|------|------------------|
| | Sign | Date | Type |
| Drawn By | | | Draw No: A288EET |
| Checked By | | | Sheet of 2 Ver: |
| Standard By | | | |
| Approved By | | | |

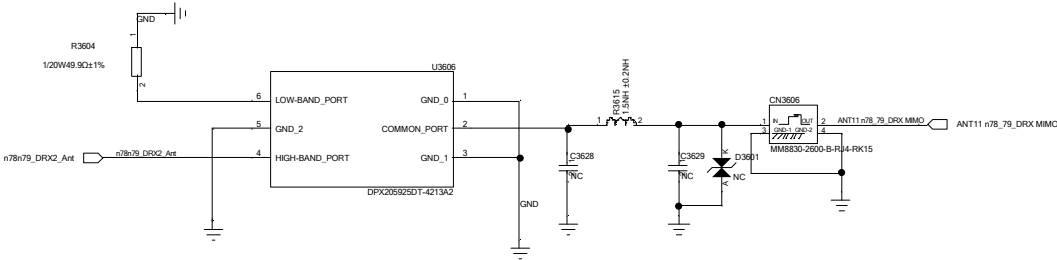


ANT9 MHB_PRX MIMO+n41_PRX MIMO+n78/79_PRX MIMO

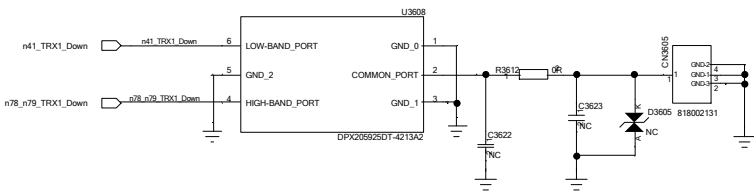
ANT5 MHB_DRX MIMO+n41/78/79_DRX



ANT11 n78/79_DRX MIMO



ANT1 n41_PRX+n78/79_PRX



| | | | |
|-------------|------|------|--------------------|
| | Sign | Date | Type: |
| Drawn By | | | Draw No: Schematic |
| Checked By | | | Sheet of 74 Ver: |
| Standard By | | | |
| Approved By | | | |





| | | | | |
|-------------|------|------|----------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: | Schematic |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |

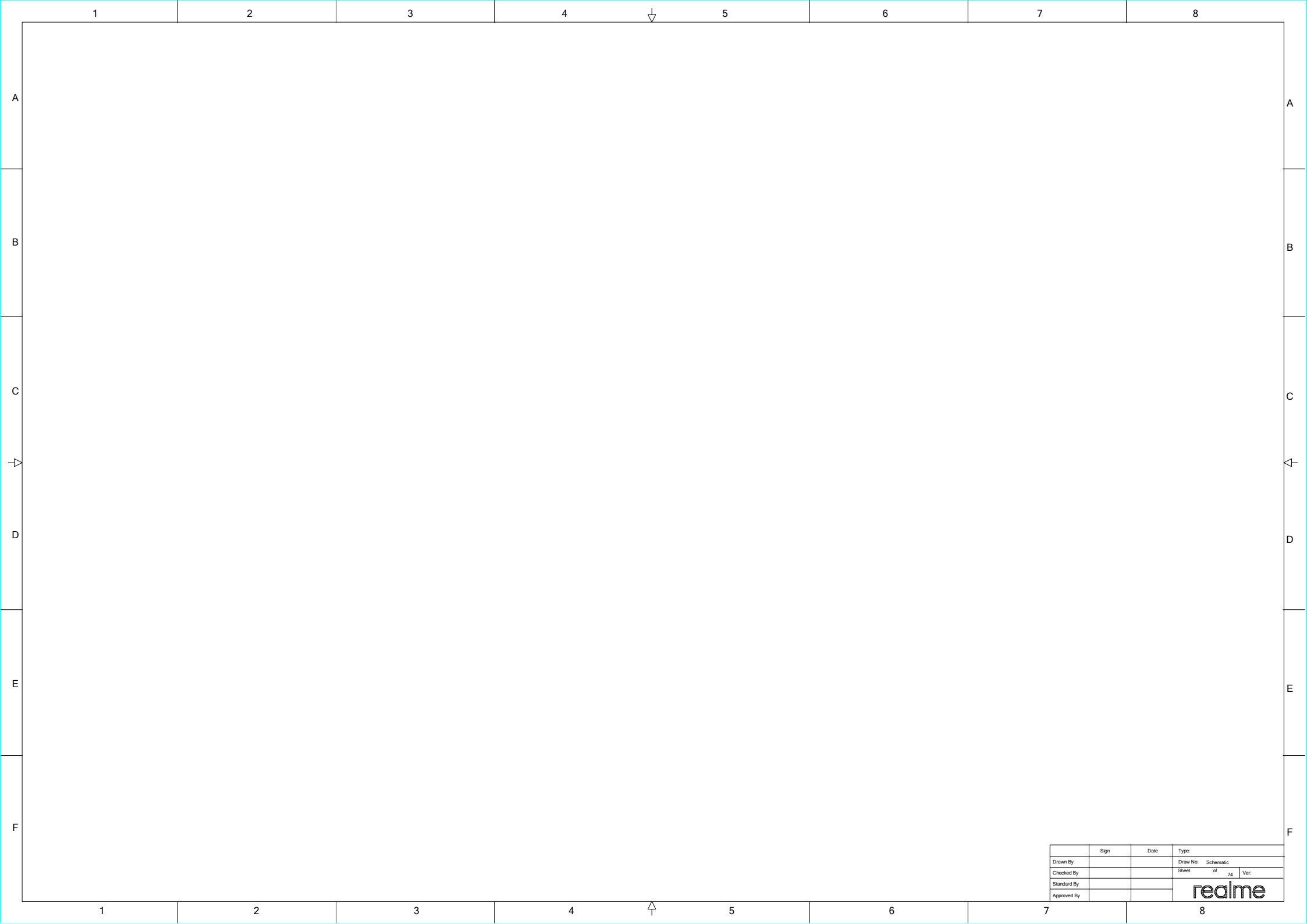


| HIF2: HIF1 | 写地址 Write | 读地址 Read |
|------------|-----------|----------|
| 0 0 | 0x50 | 0x51 |
| 0 1 | 0x52 | 0x53 |
| 1 0 | 0x54 | 0x55 |
| 1 1 | 0x56 | 0x57 |

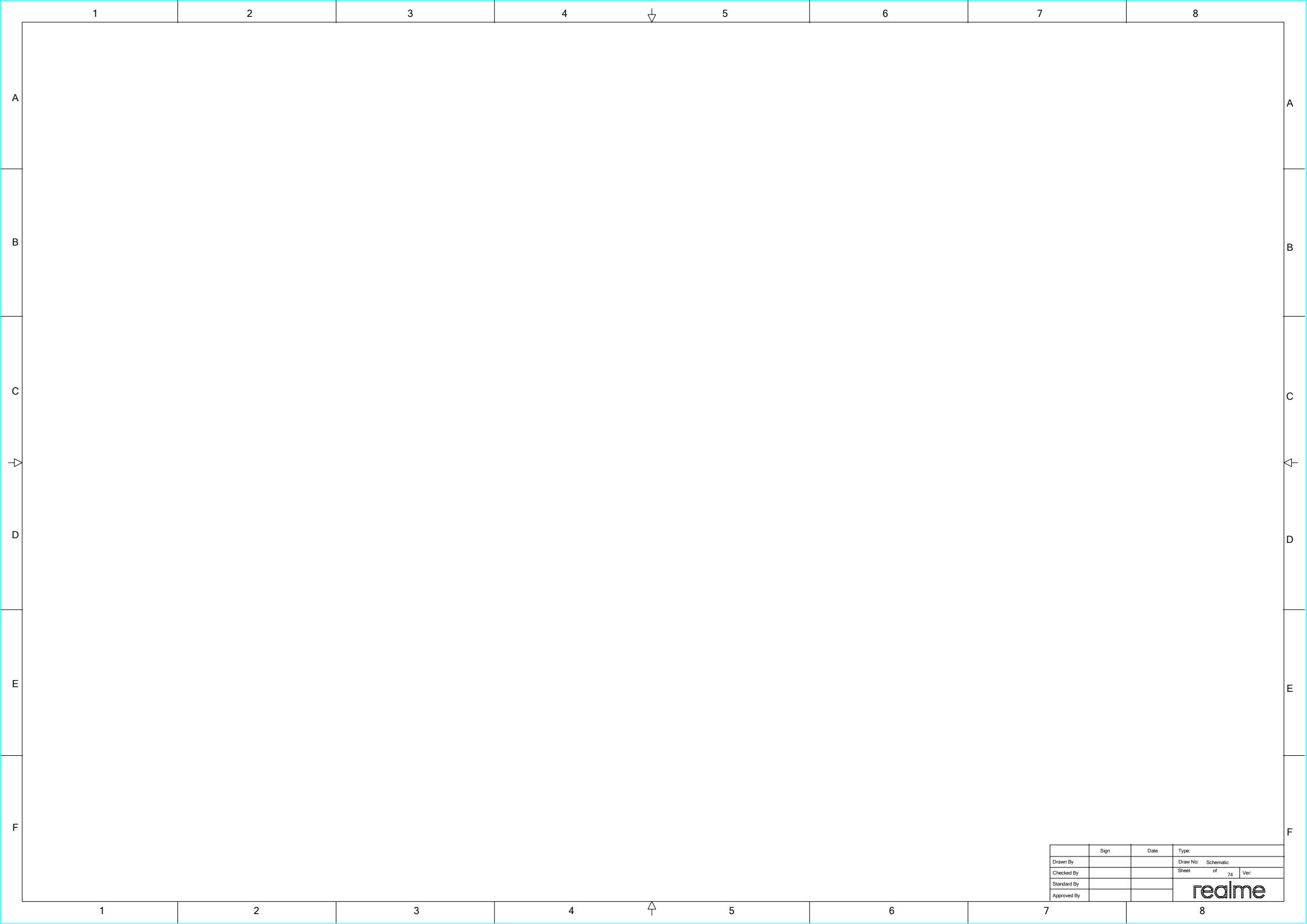
| | | | |
|-------------|------|------|--------------------|
| | Sign | Date | Type: |
| Drawn By | | | Draw No: Schematic |
| Checked By | | | Sheet of 74 Ver: |
| Standard By | | | realme |
| Approved By | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

| | | | | |
|-------------|------|------|------------------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: A2SHEET | |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |



| | | | | |
|-------------|------|------|----------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: | Schematic |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |



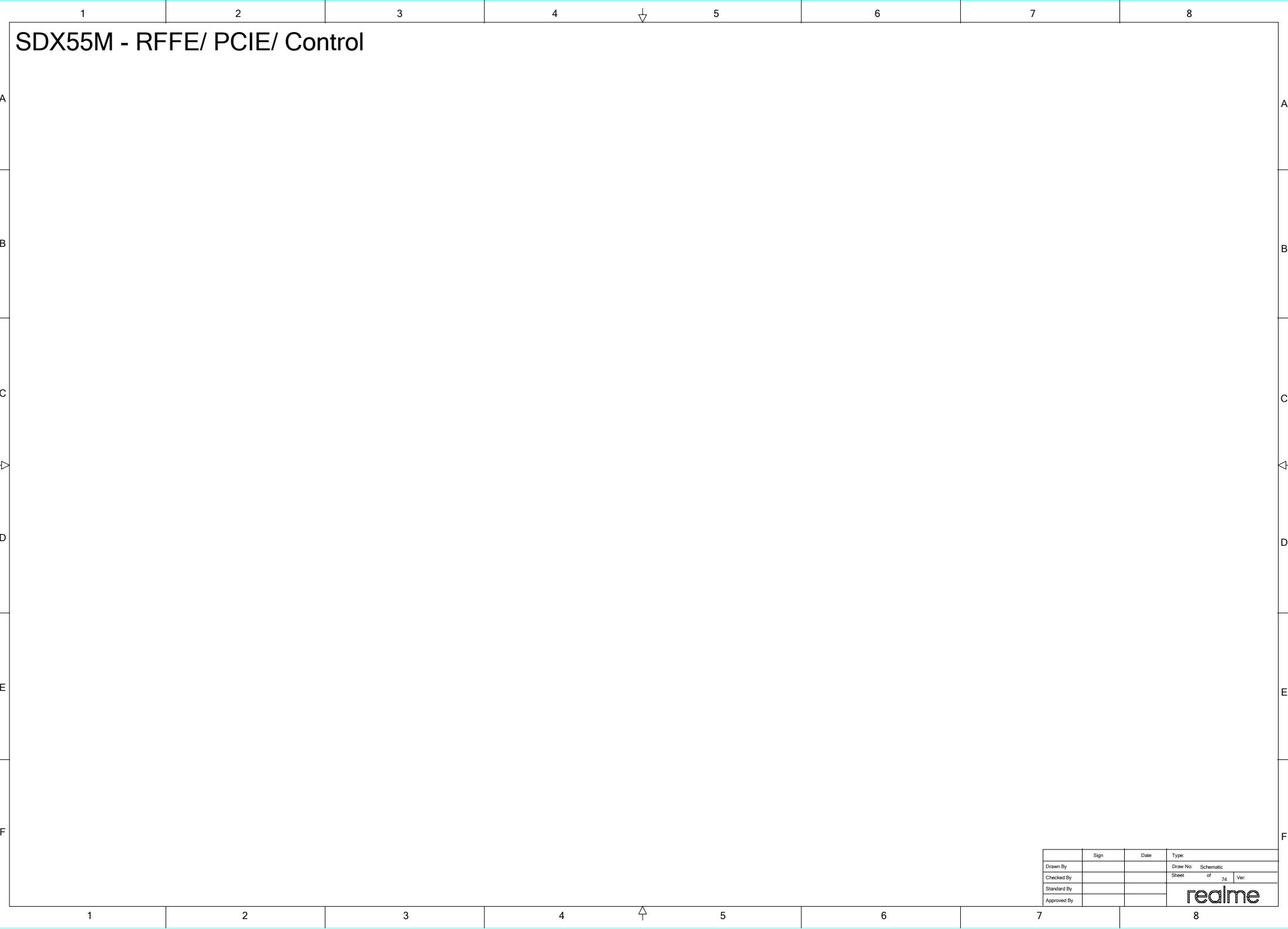
| | | | | |
|-------------|------|------|----------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: | Schematic |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

| | | | | |
|-------------|------|------|------------------|-----------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: A2SHEET | |
| Checked By | | | Sheet | of 2 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |

SDX55M_GPIO

| | | | | |
|-------------|------|------|----------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: | Schematic |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |



SDX55M_PWR

| | | | | |
|-------------|------|------|----------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: | Schematic |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |



SDX55M_GND

| | | | | |
|-------------|------|------|----------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: | Schematic |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |

PMIC_PMX55_BUCKS

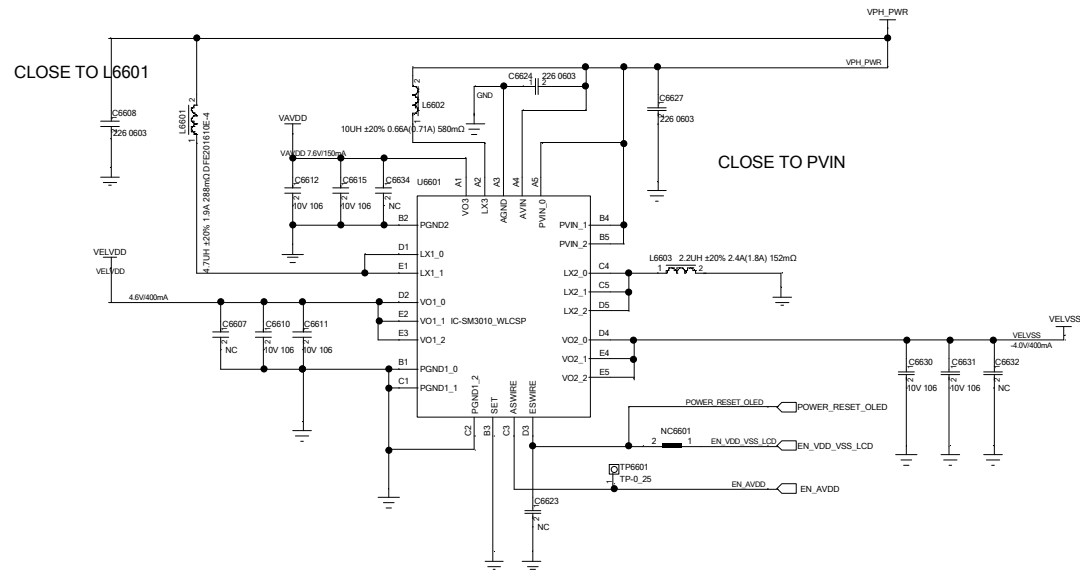
PMK8002

| | | | | |
|-------------|------|------|----------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: | Schematic |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |

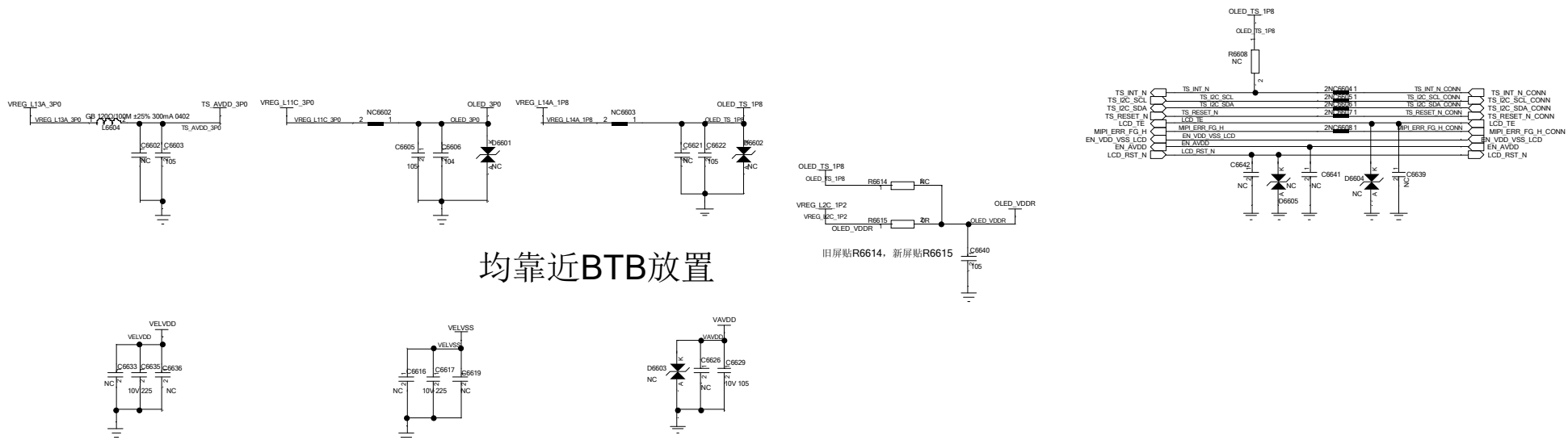
PMX55_LDOS


| | | | | |
|-------------|------|------|----------|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: | Schematic |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | | realme | |
| Approved By | | | | |

OLED Driver

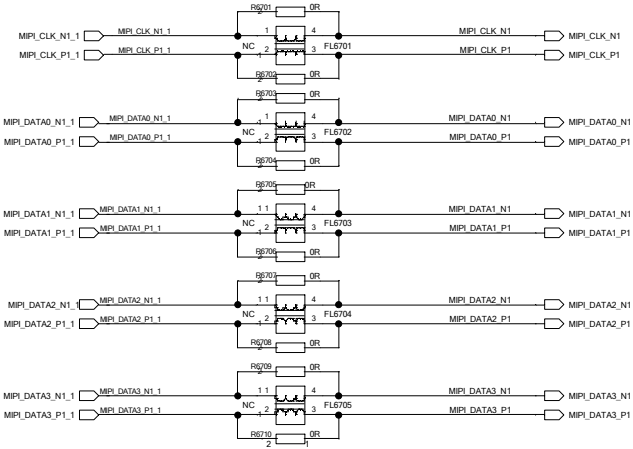


TO_L_FPC

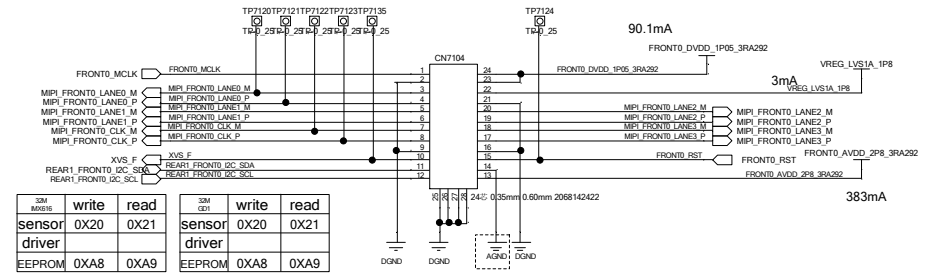


| | | | | |
|-------------|------|------|---|------------|
| | Sign | Date | Type: | |
| Drawn By | | | Draw No: Schematic | |
| Checked By | | | Sheet | of 74 Ver: |
| Standard By | | |  | |
| Approved By | | | | |

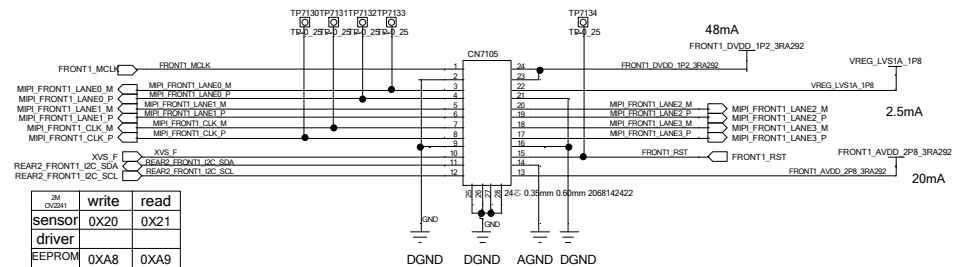
OLED MIPI



Front0 Main Camera



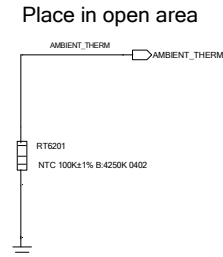
Front1 Wide Camera



| | Sign | Date | Type |
|-------------|------|------|--------------------|
| Drawn By | | | Draw No: Schematic |
| Checked By | | | Sheet of 72 Ver: |
| Standard By | | | |
| Approved By | | | |

realme

BOARD THERM

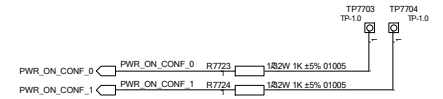


Test Config

综测校准测试点

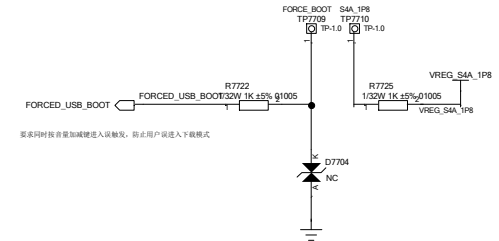
BOOT MODE

| CONF_0 | CONF_1 | Mode |
|--------|--------|-----------------|
| 0 | 0 | Factory Mode |
| 0 | 1 | WLAN Final Test |
| 1 | 0 | RF mode |
| 1 | 1 | Ordinary Power |



外部上拉已删除，GPIO口需配成内部输入上拉

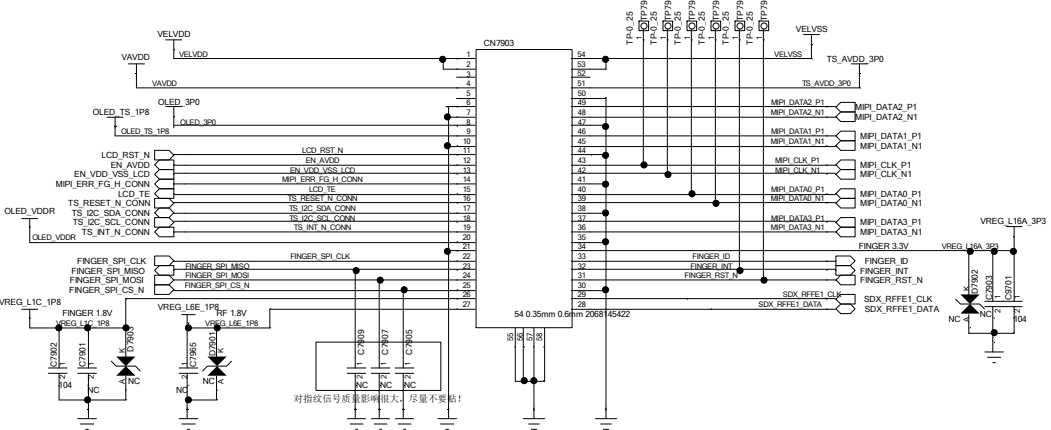
UPDATE



要求同时按音量加减键进入误触发,防止用户误进入下载模式

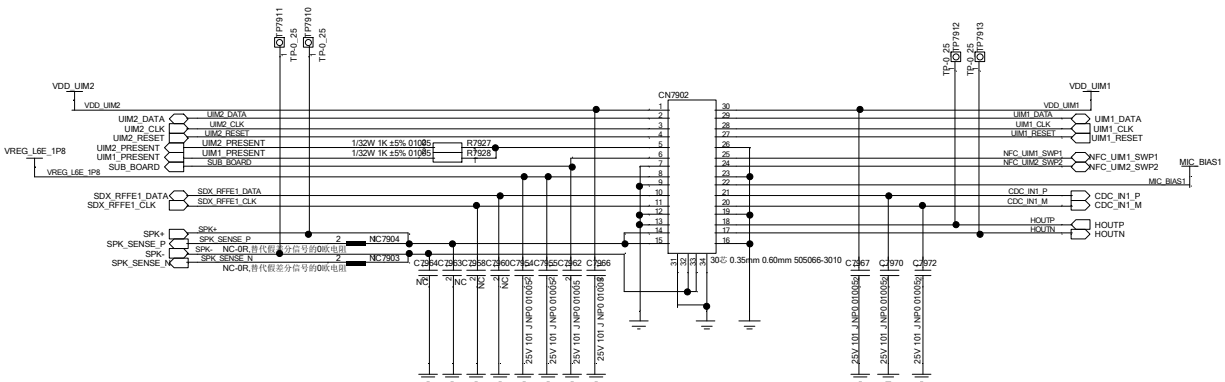
L Board BTB

屏、天线、指纹



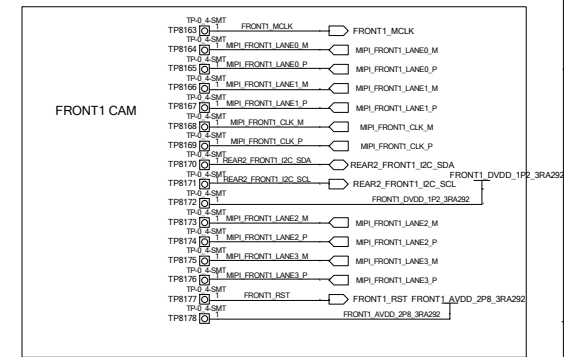
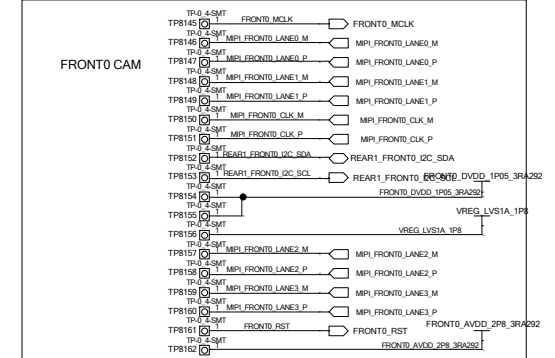
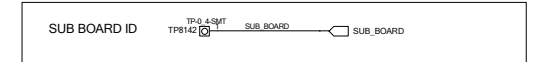
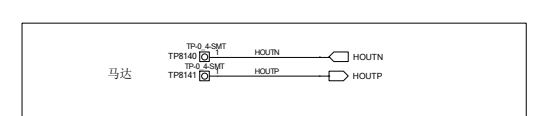
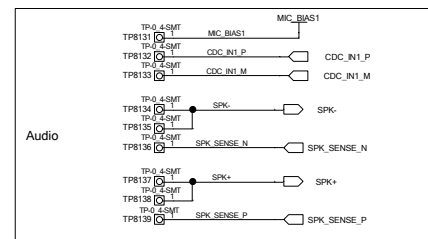
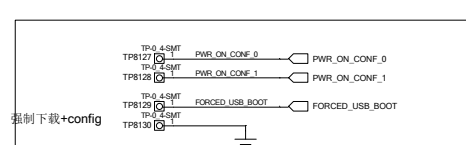
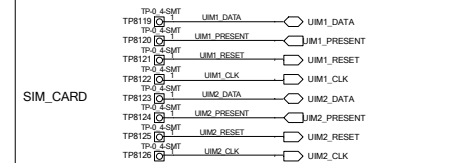
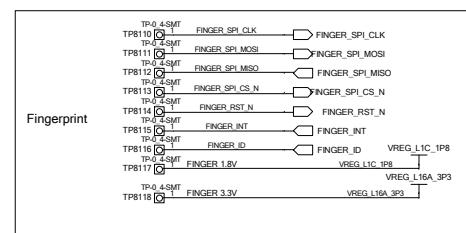
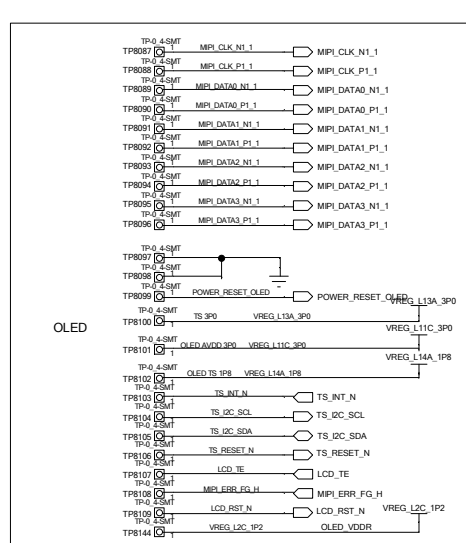
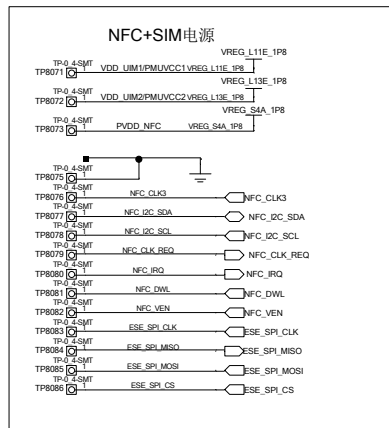
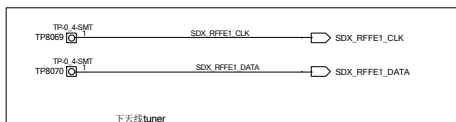
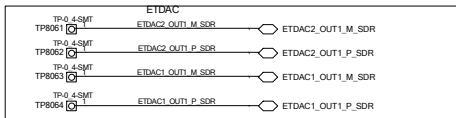
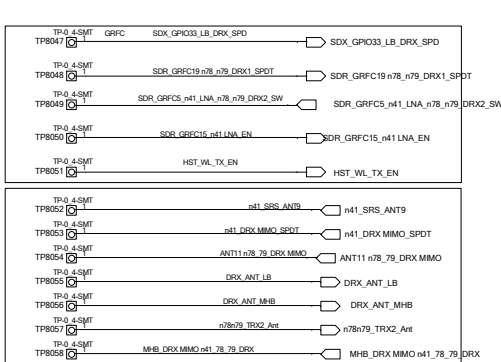
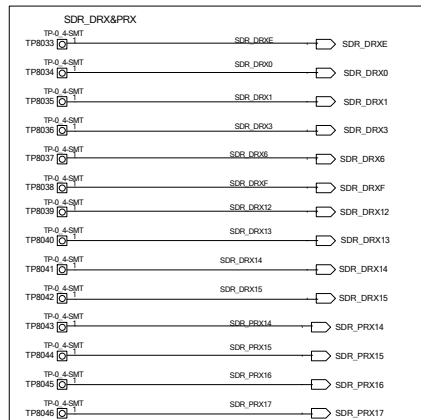
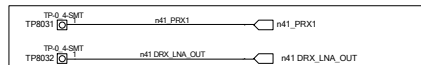
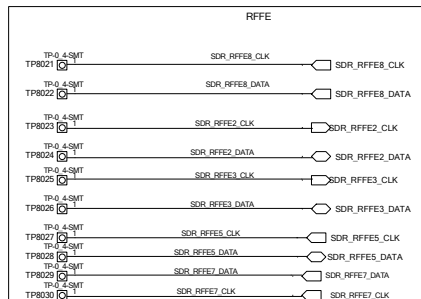
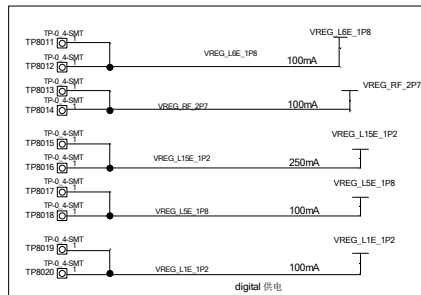
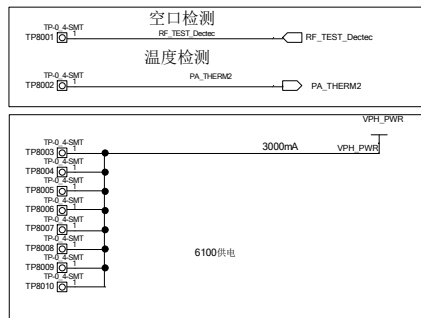
A1 Board BTB


SIM、主mic、天线、马达、SPK、版本识别



| Sign | Date | Type |
|-------------|---------|------------|
| Drawn By | Draw No | Schematic |
| Checked By | Sheet | of 74 Ver. |
| Standard By | | |
| Approved By | | |

realme



| | | | |
|-------------|------|------|---|
| | Sign | Date | Type: |
| Drawn By | | | Draw No: Schematic |
| Checked By | | | Sheet of 75 Ver: |
| Standard By | | |  |
| Approved By | | | |

A

B

C

D

E

F

A

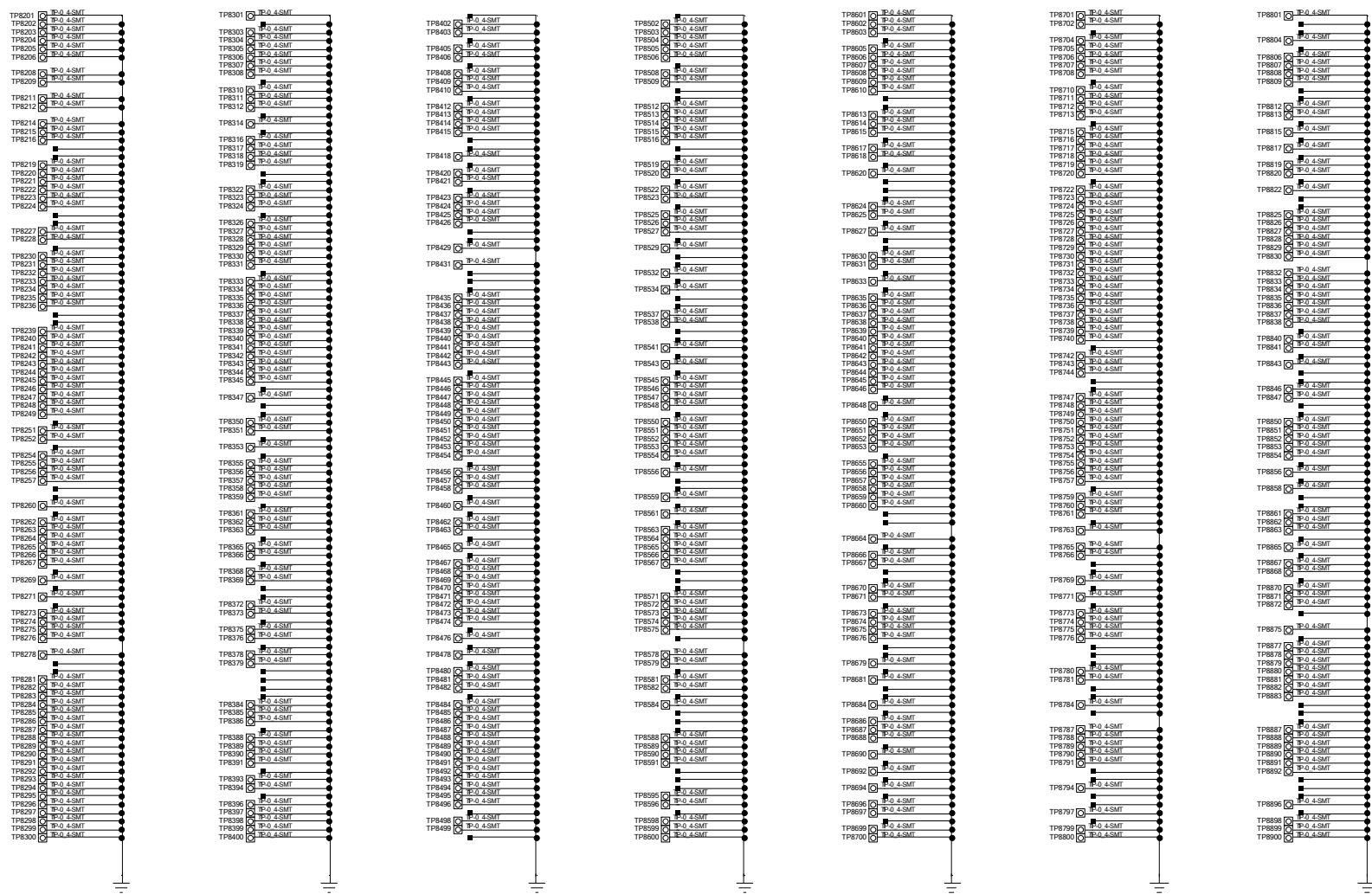
B

C

D

E

F



此8个TP：2板和4板之间网络为电源，4板和31板之间网络为GND

| | Sign | Date | Type |
|-------------|------|------|--------------------|
| Drawn By | | | Draw No: Schematic |
| Checked By | | | Sheet of 75 Ver: |
| Standard By | | | |
| Approved By | | | |

realme

