■ BB and RF shields

■ **BB top level**
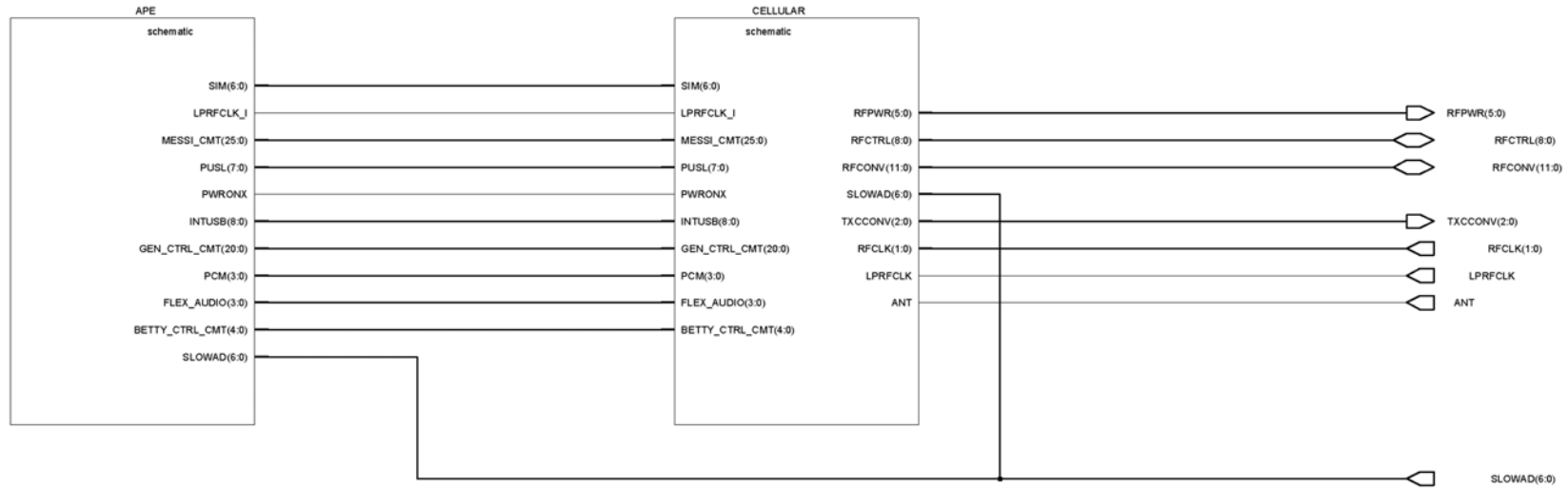
■ **BB and RF**
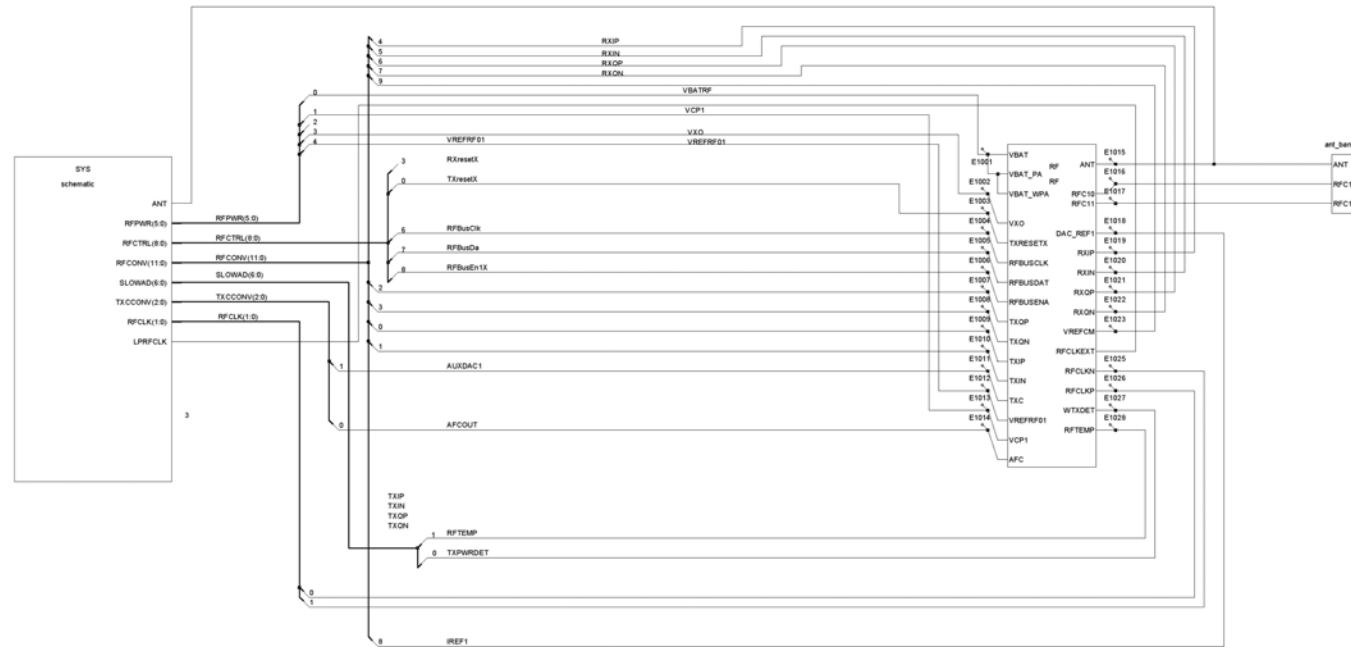
| CMT SHEET NAME	REF AREA
1yb_hw/cellular/cmt_engine/digi/rap	2800-2899
1yb_hw/cellular/cmt_engine/digi/mem_cmt	3000-3099
1yb_hw/cellular/cmt_engine/power/retu	2200-2299
1yb_hw/cellular/cmt_engine/power/tahvo	2300-2399
1yb_hw/cellular/cmt_if/sys_conn	2000-2059
1yb_hw/cellular/cmt_if/prod_test_pattern	2060-2069
1yb_hw/cellular/cmt_if/battery_conn	2070-2099
1yb_hw/cellular/cmt_if/audio	2100-2199
1yb_hw/cellular/cmt_if/sim	2700-2759

APE SHEET NAME	REF AREA
1yb_hw/ape/ape_engine/mem_ape	5000-5099
1yb_hw/ape/ape_engine/cpu	4800-4899
1yb_hw/ape/ape_engine/pwr_ape	4200-4399
1yb_hw/ape/ape_if/emu_ape	5100-5199
1yb_hw/ape/ape_if/bluetooth	6000-6099
1yb_hw/ape/ape_if/mmc	5200-5299
1yb_hw/ape/ape_if/camera	1500-1599
1yb_hw/ape/ape_if/ui	4400-4599

RF SHEET NAME	REF AREA
1yb_hw/RF	7500-7599

■ **BB top level 2**
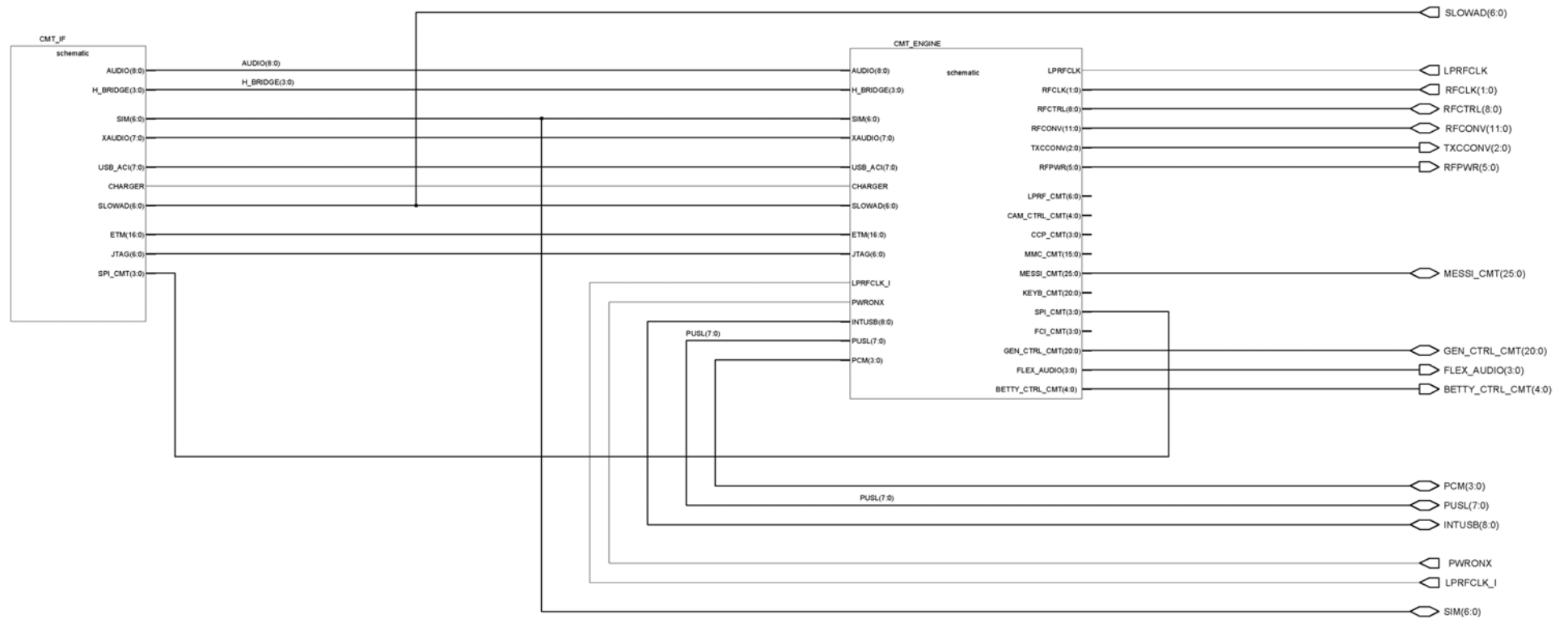
CMT engine top level

■ RAPstack for memory

Bypass for CPU
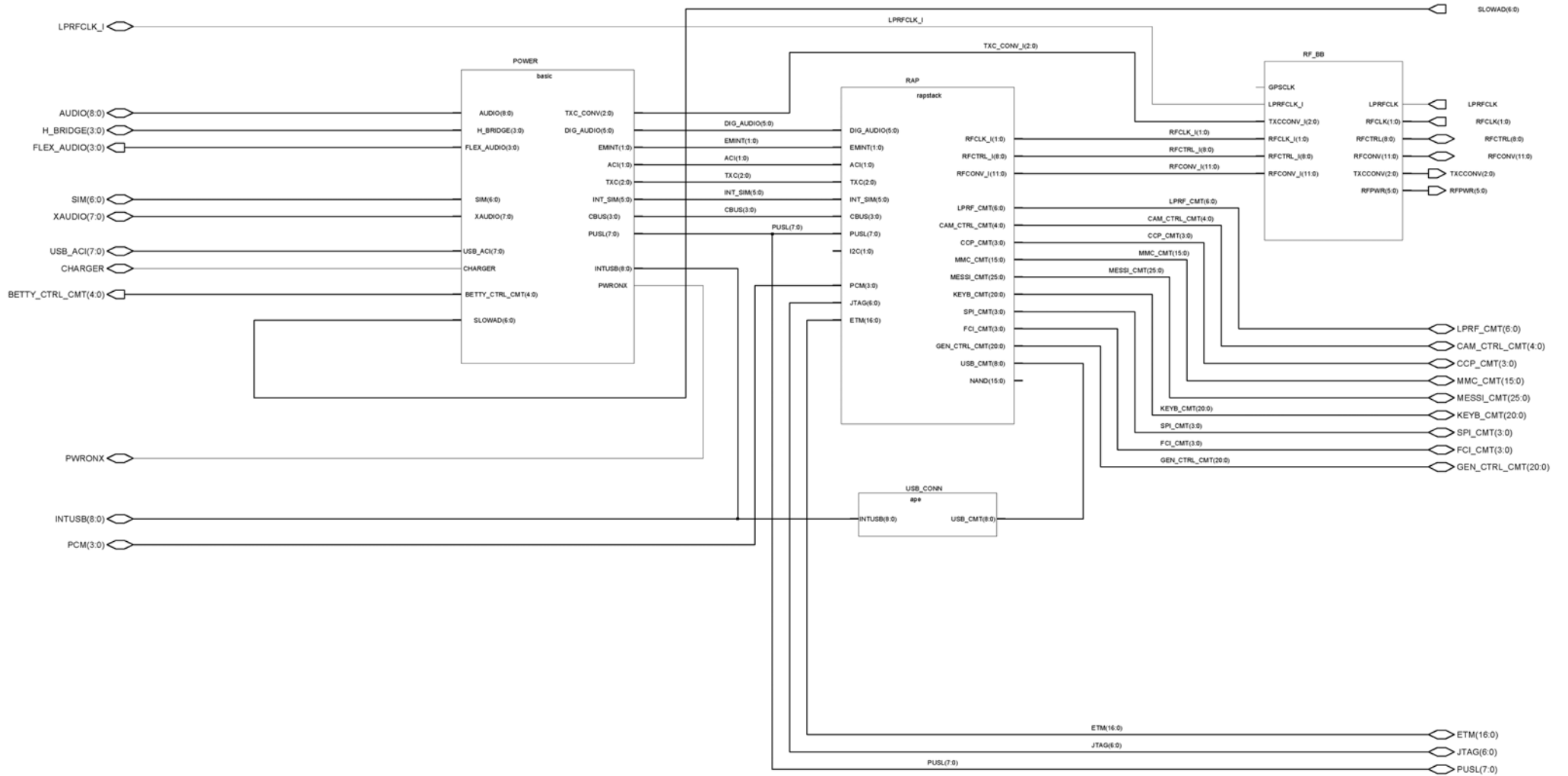
Bypass for memory
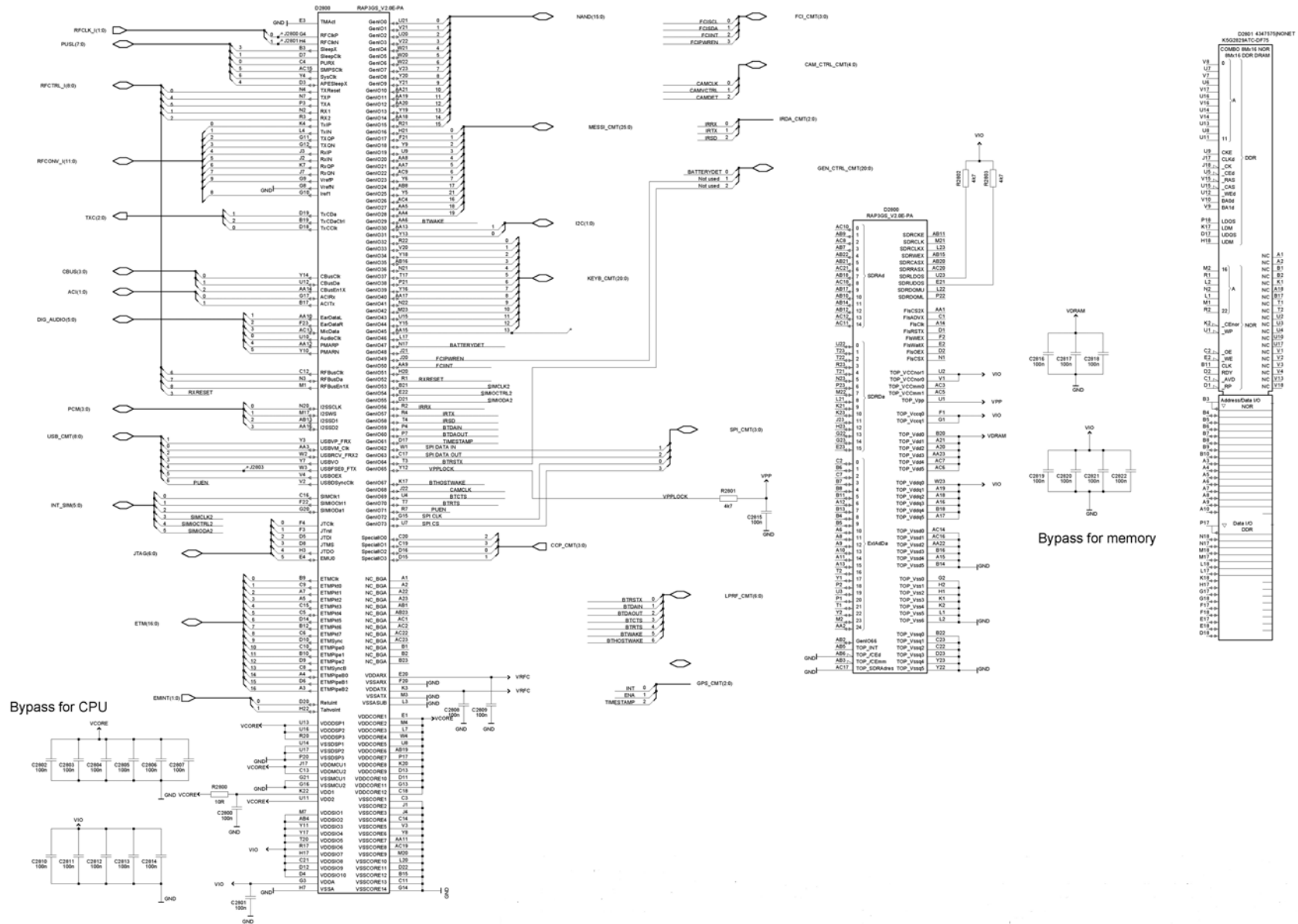
USB connections with APE

```
                              6   FTX              4
                                       ◄───►

                              2   FRX2             2
                                       ◄───►
                              1   FRX              1
                                       ◄───►
                              0   CLK              0
                                       ◄───►

   INTUSB(8:0)                                          USB_CMT(8:0)
```
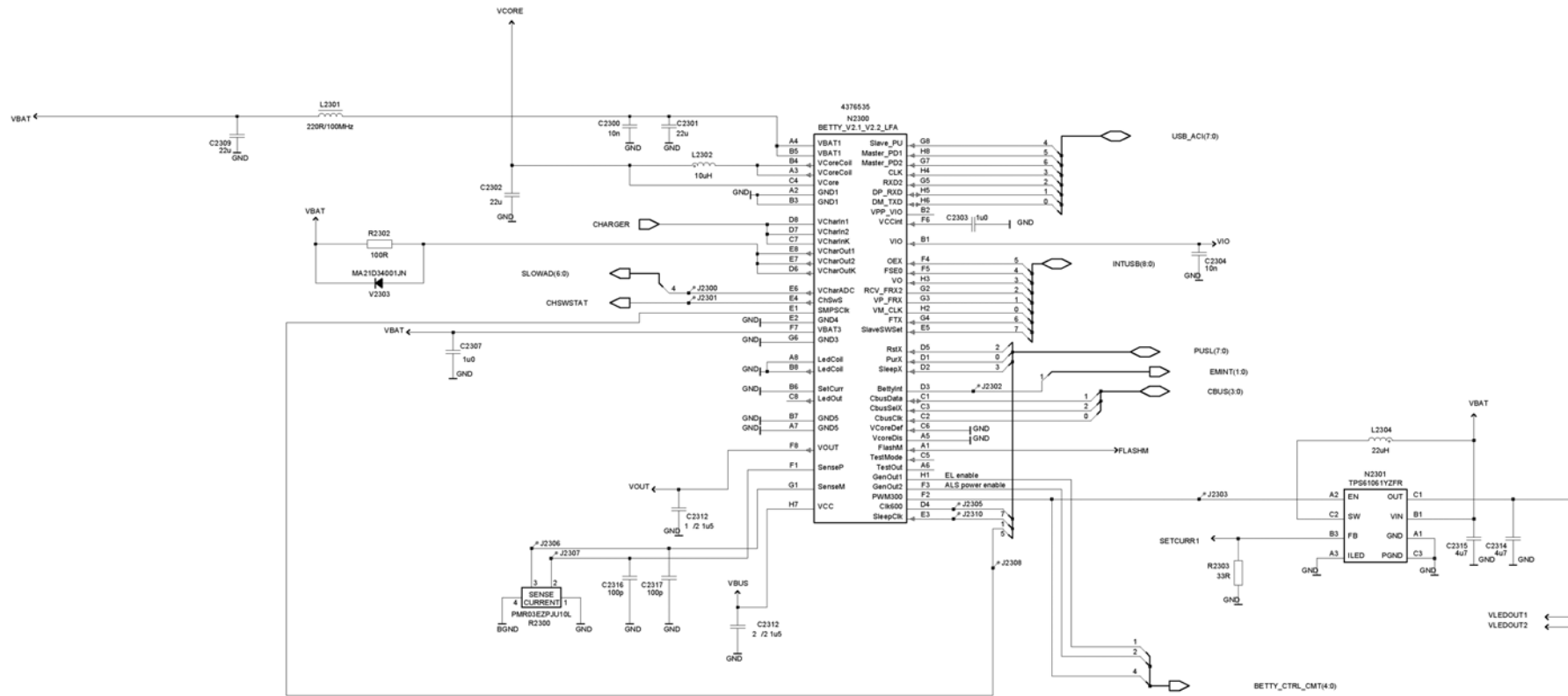
■ **RF IF**

CBB5X

TOP SHEET

RFCLK_I(1:0) ◁   ◁ RFCLK(1:0)

LPRFCLK_I ◁   ◁ LPRFCLK

◁

RFCONV_I(11:0) ◁▷   ◁▷ RFCONV(11:0)

RFCTRL_I(8:0) ◁▷   ◁▷ RFCTRL(8:0)

TXCCONV_I(2:0) ◁▷   ◁▷ TXCCONV(2:0)

VBAT VRCP1 VRCP2 VR1 VREF

0   1   2   3   4   ◁▷ RFPWR(5:0)
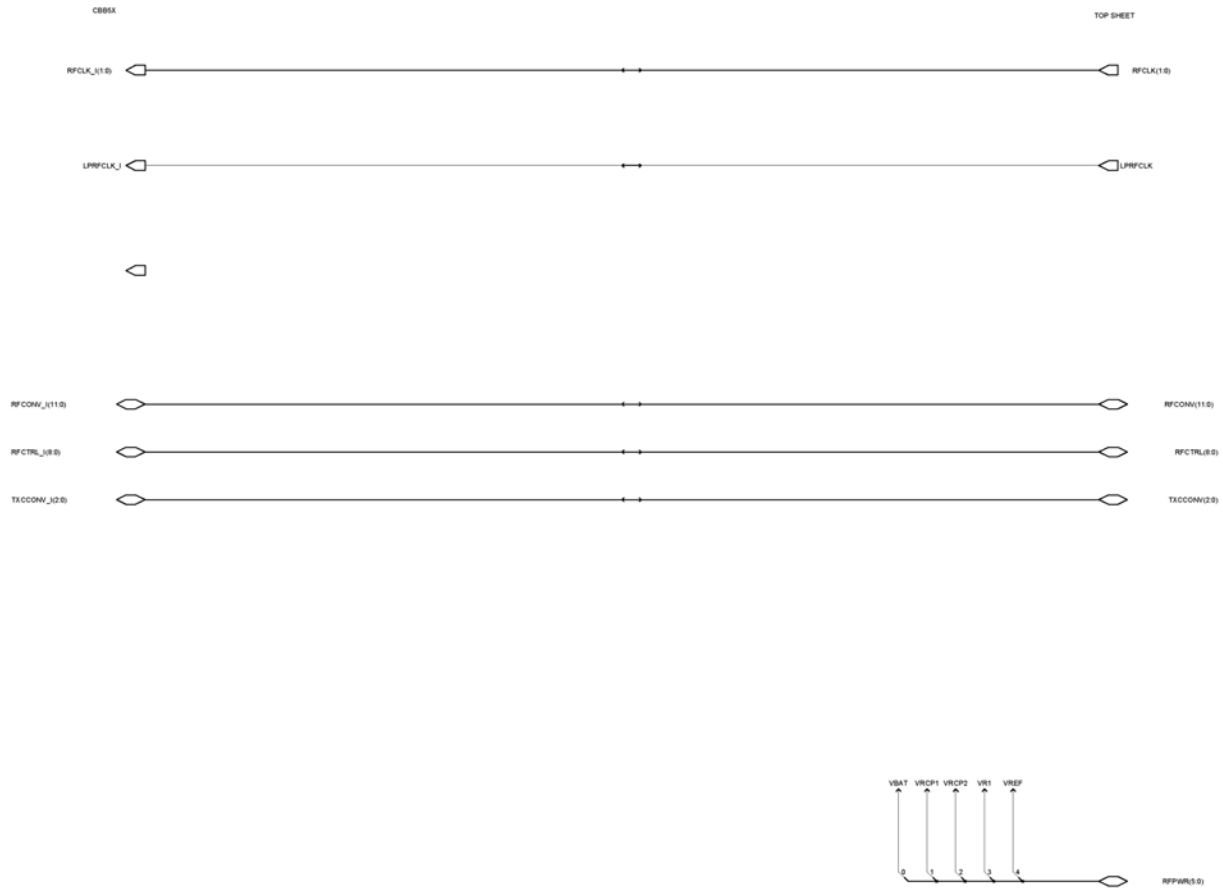
■ **Energy management**

■ **Vilma**

Earpiece- connection

IHF- connection
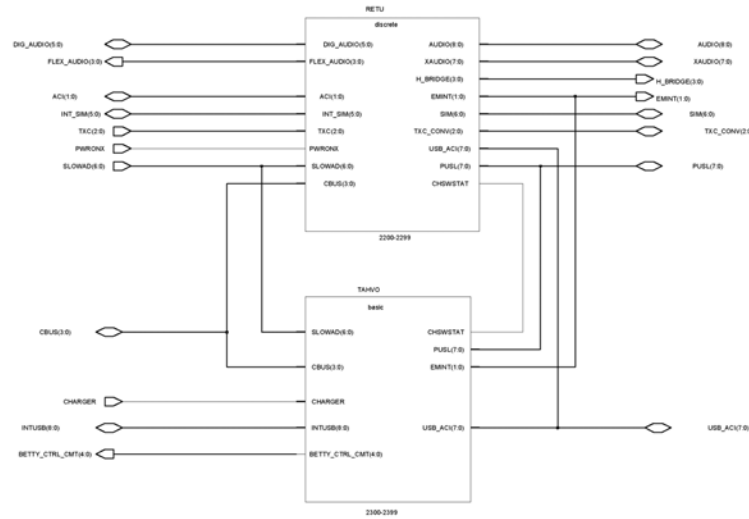
Vibra
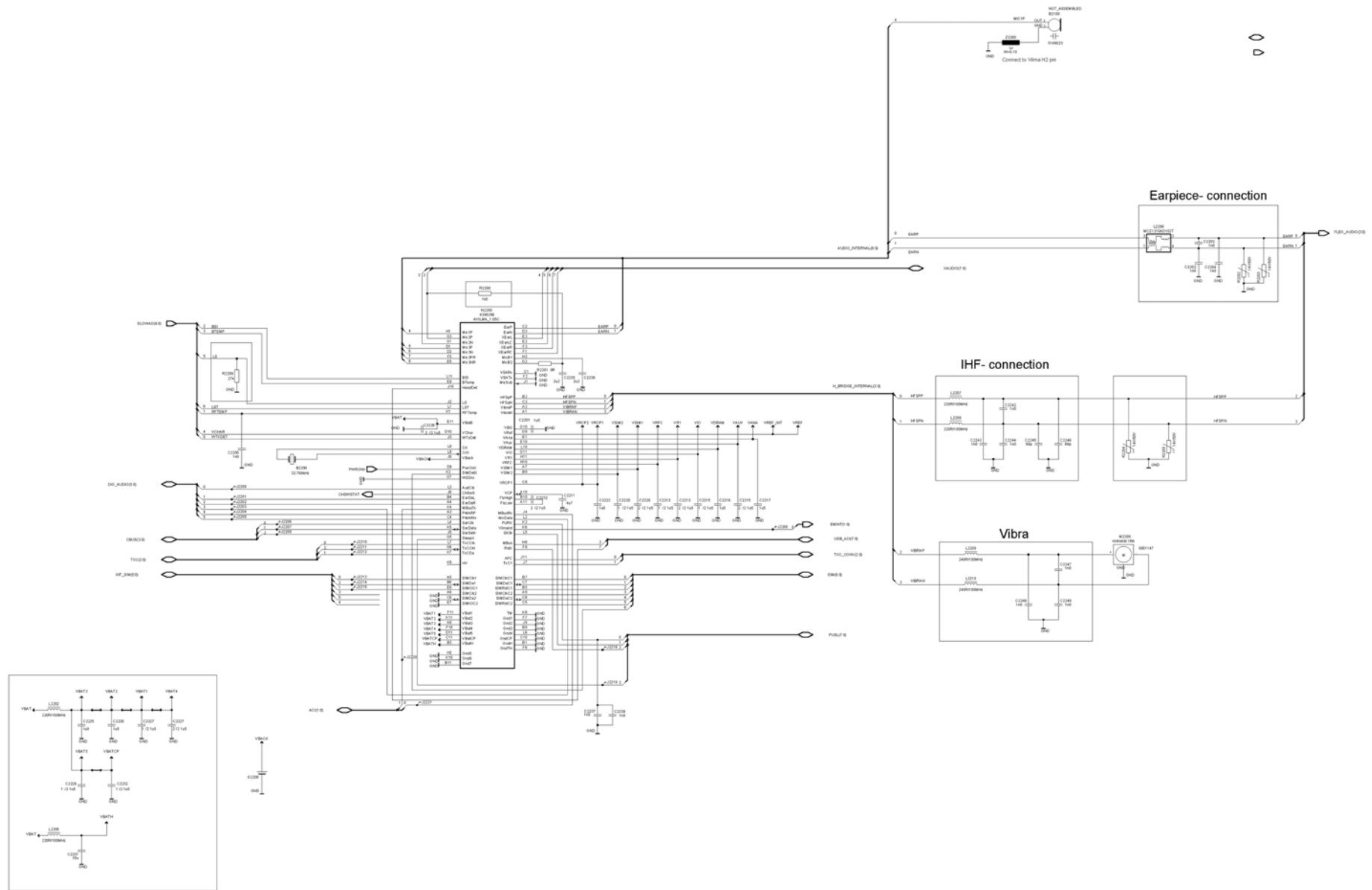
■ Betty

CMT IF top level
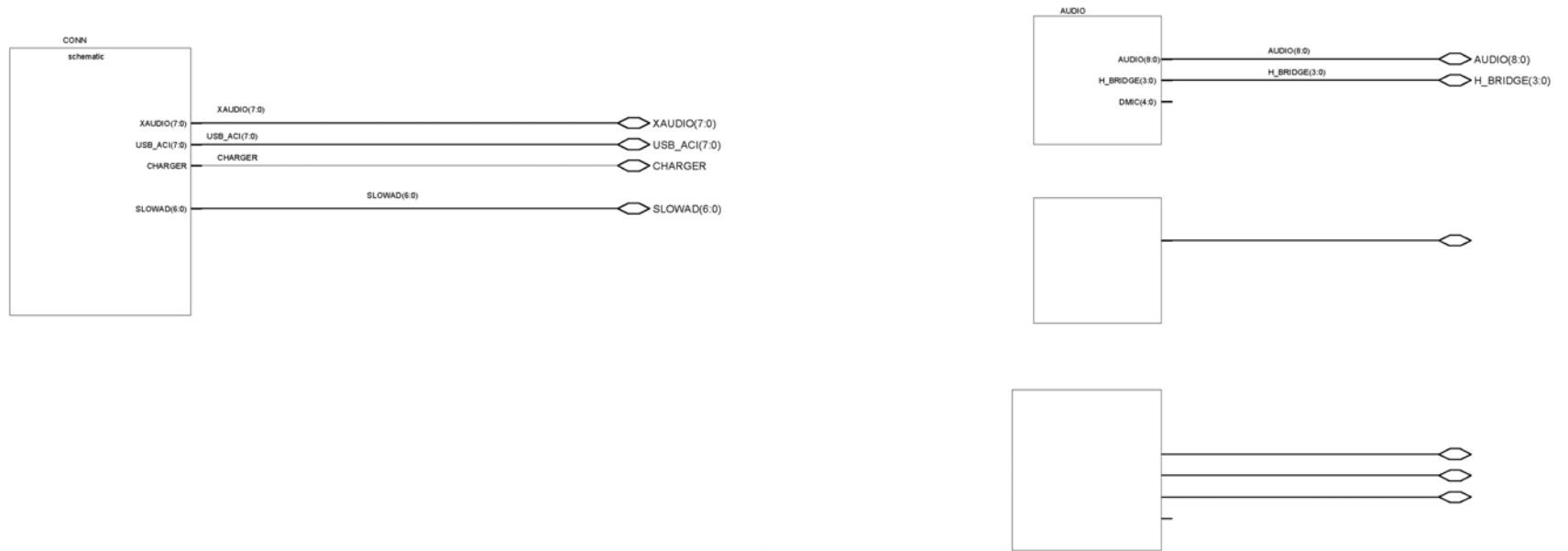
■ **System and battery connector**
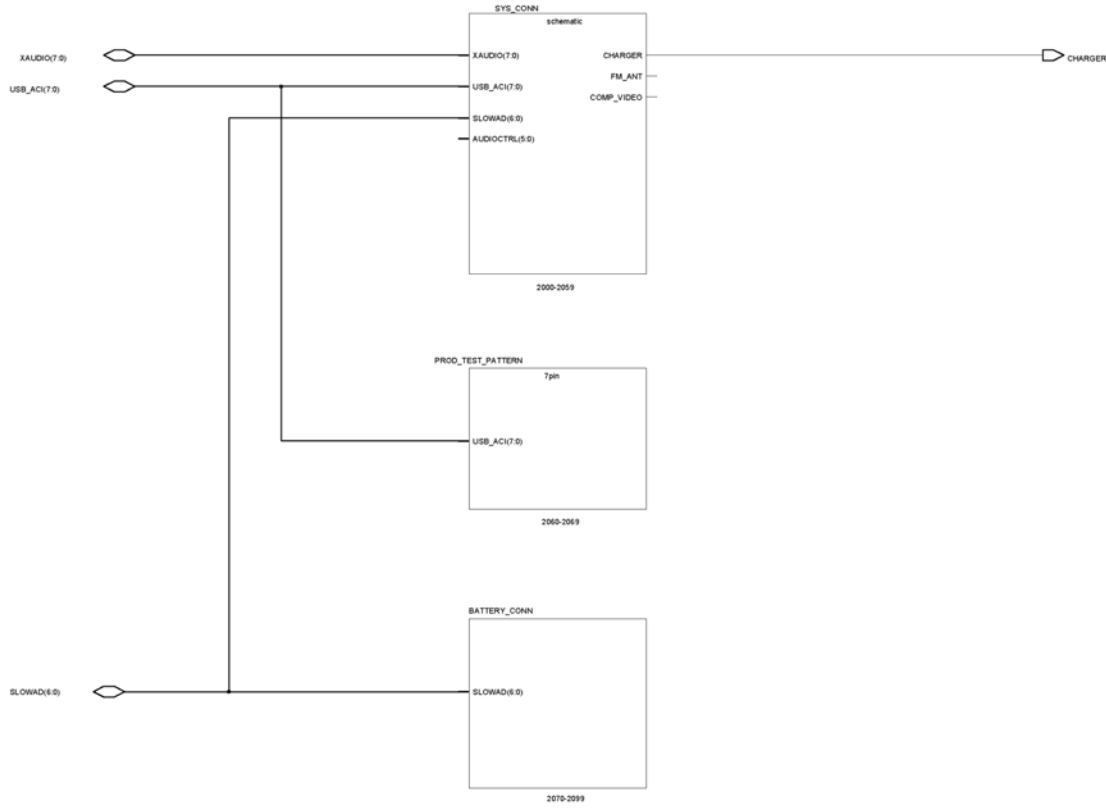
■ System connector
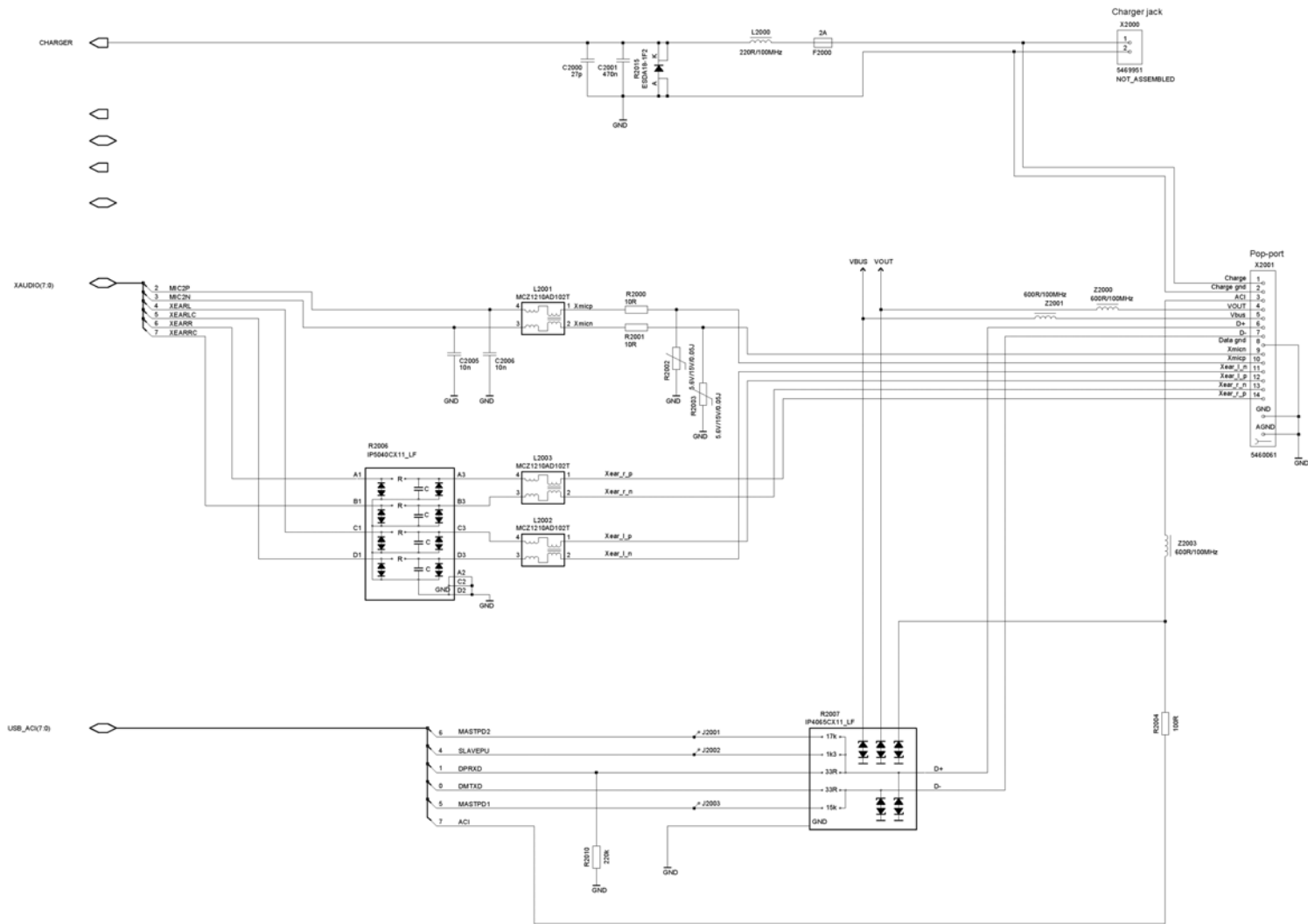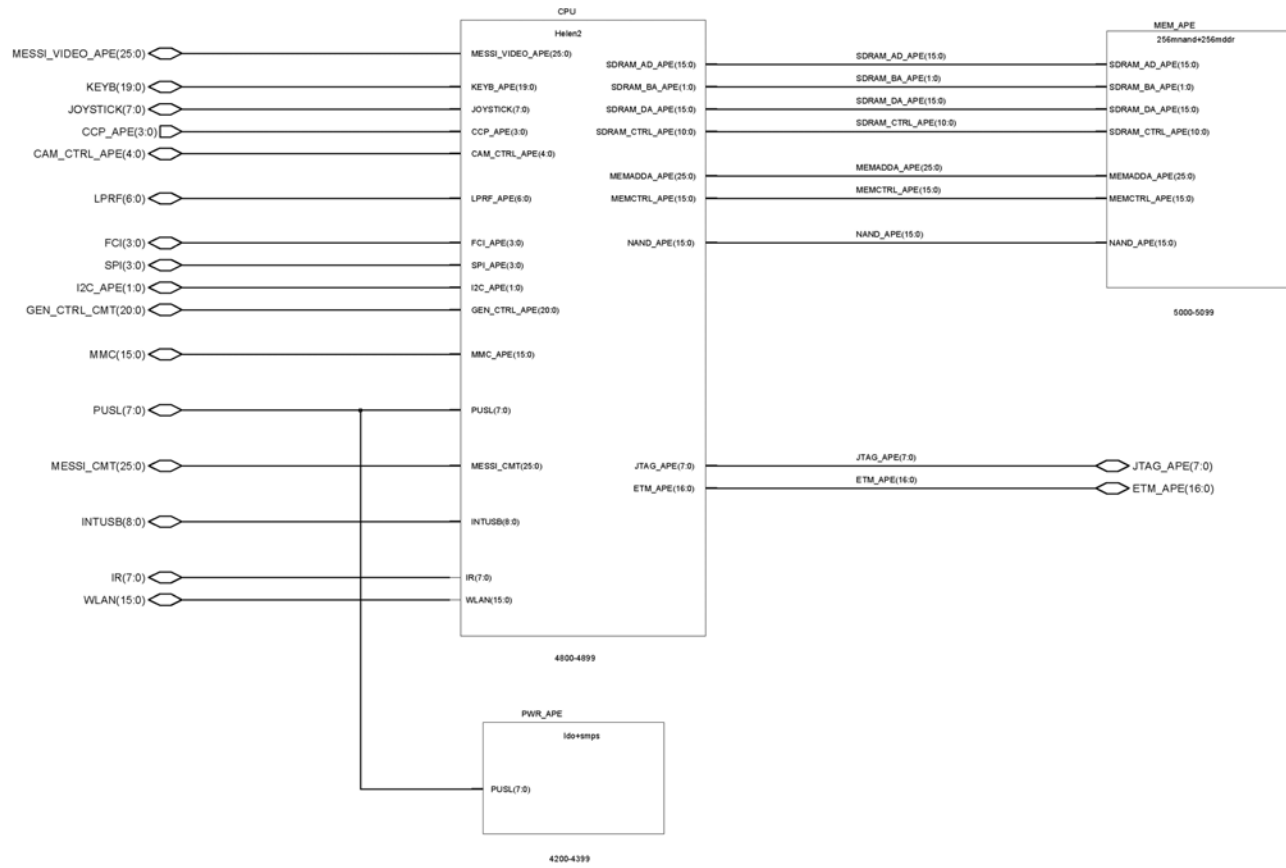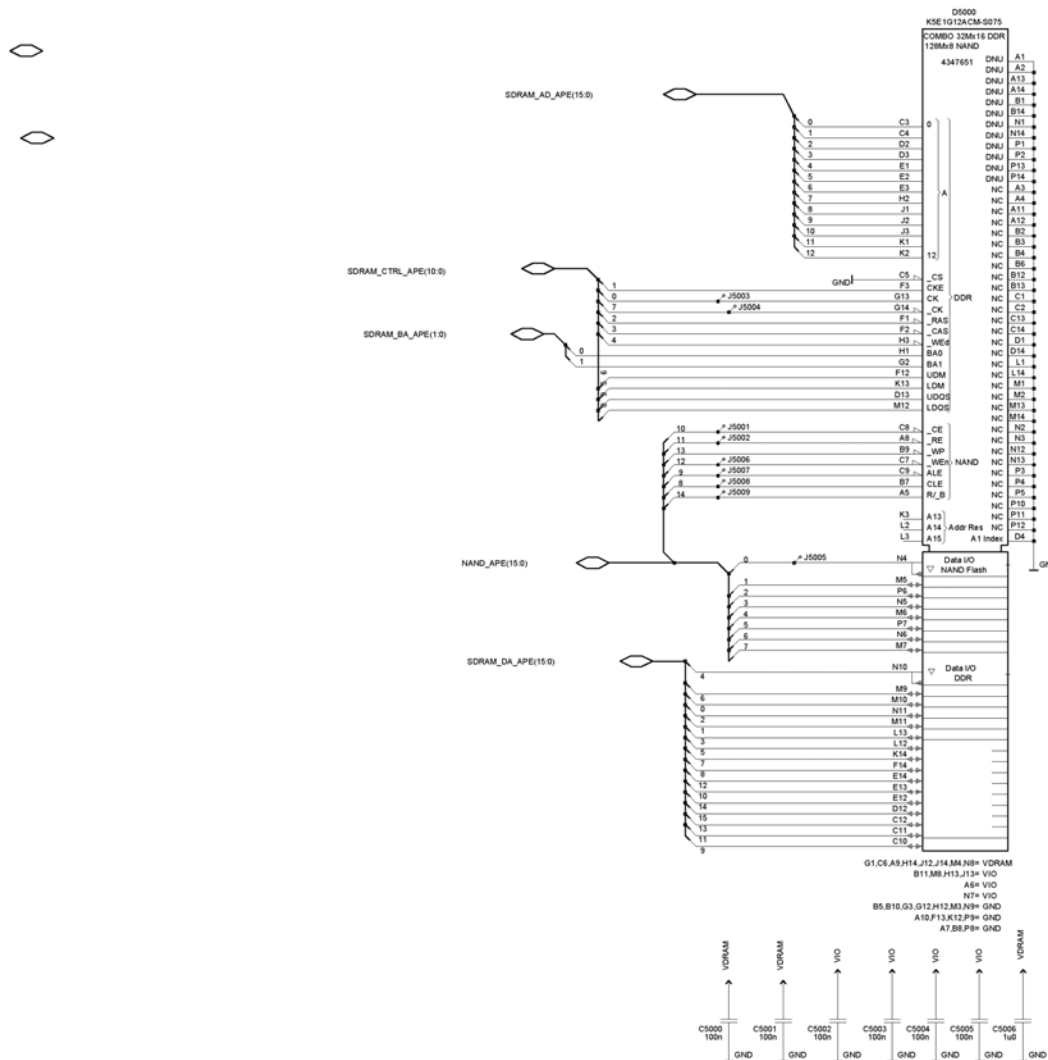
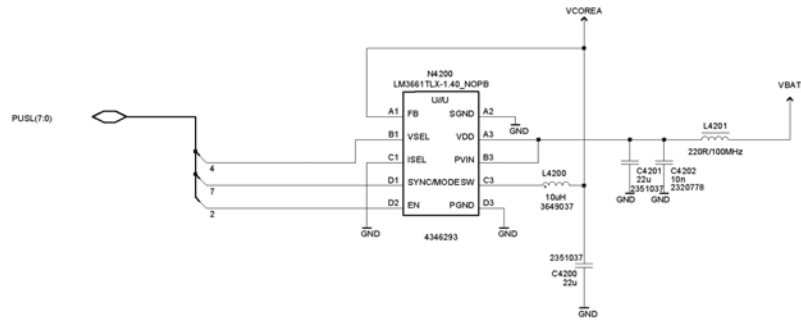## ■ Battery connector
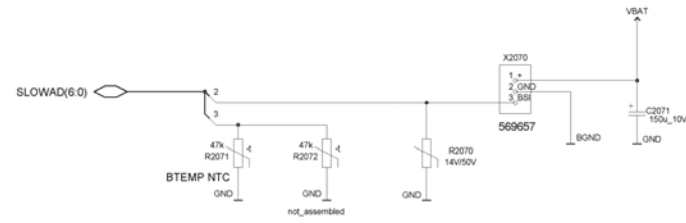
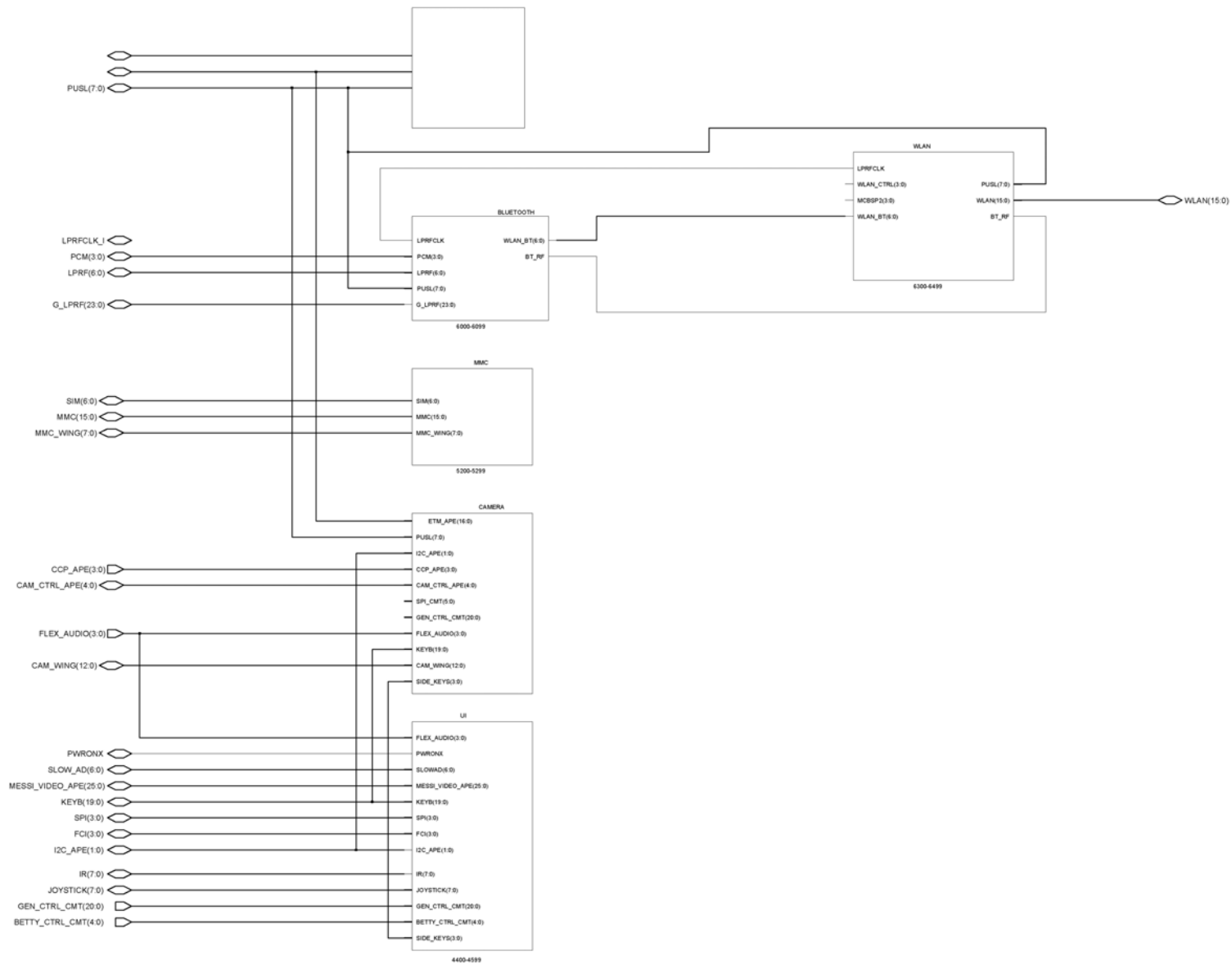■ **Test pad**
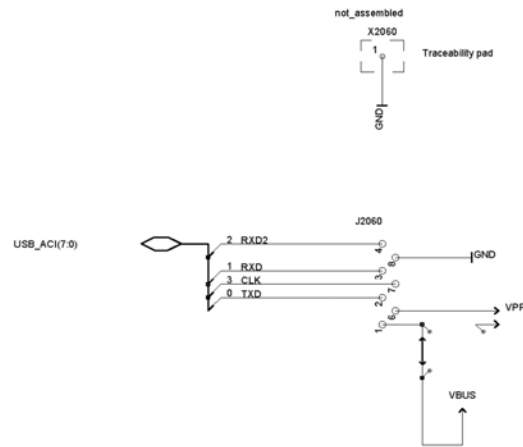
■ **Application engine top level**
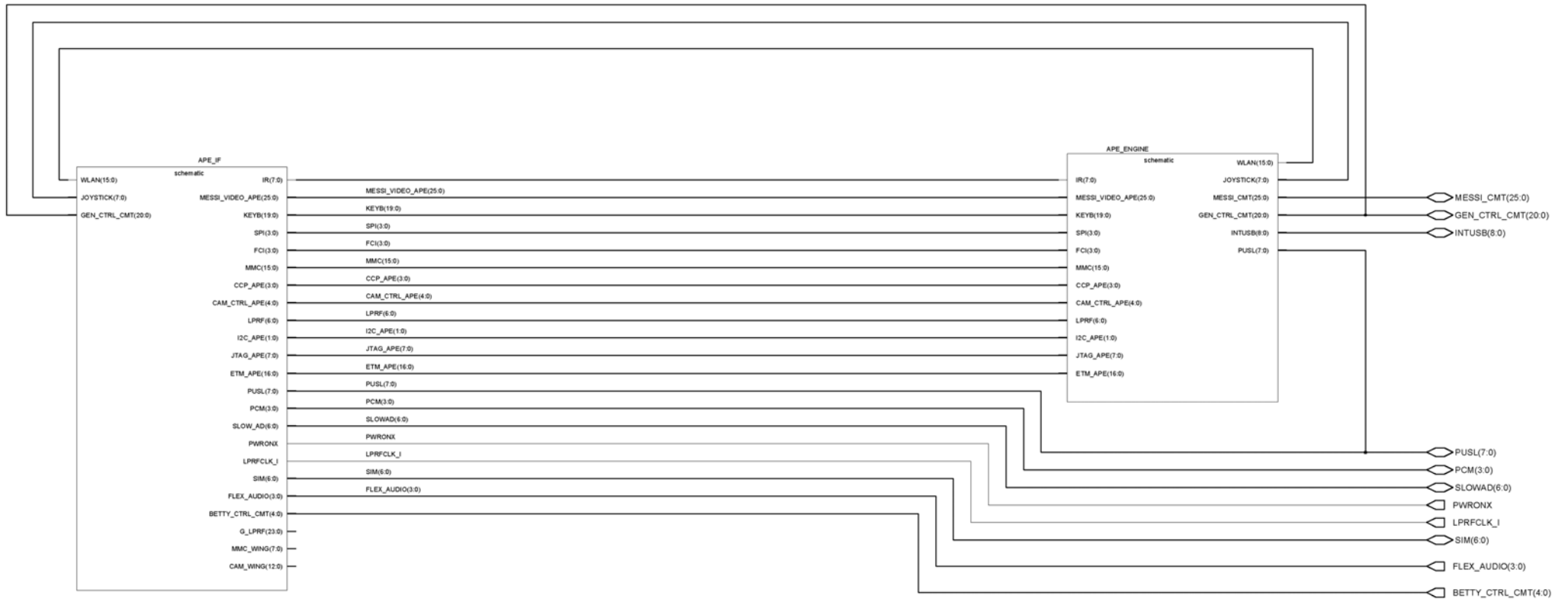
■ **APE engine**

■ **APE memories**

■ **Regulators**

■ **Helen**

■ **APE IF**

■ **STV984 + SMIA85**

1500-1999

STV984

1ye flex connector

2.8V DC-DC Regulator

1.8V DC-DC Regulator
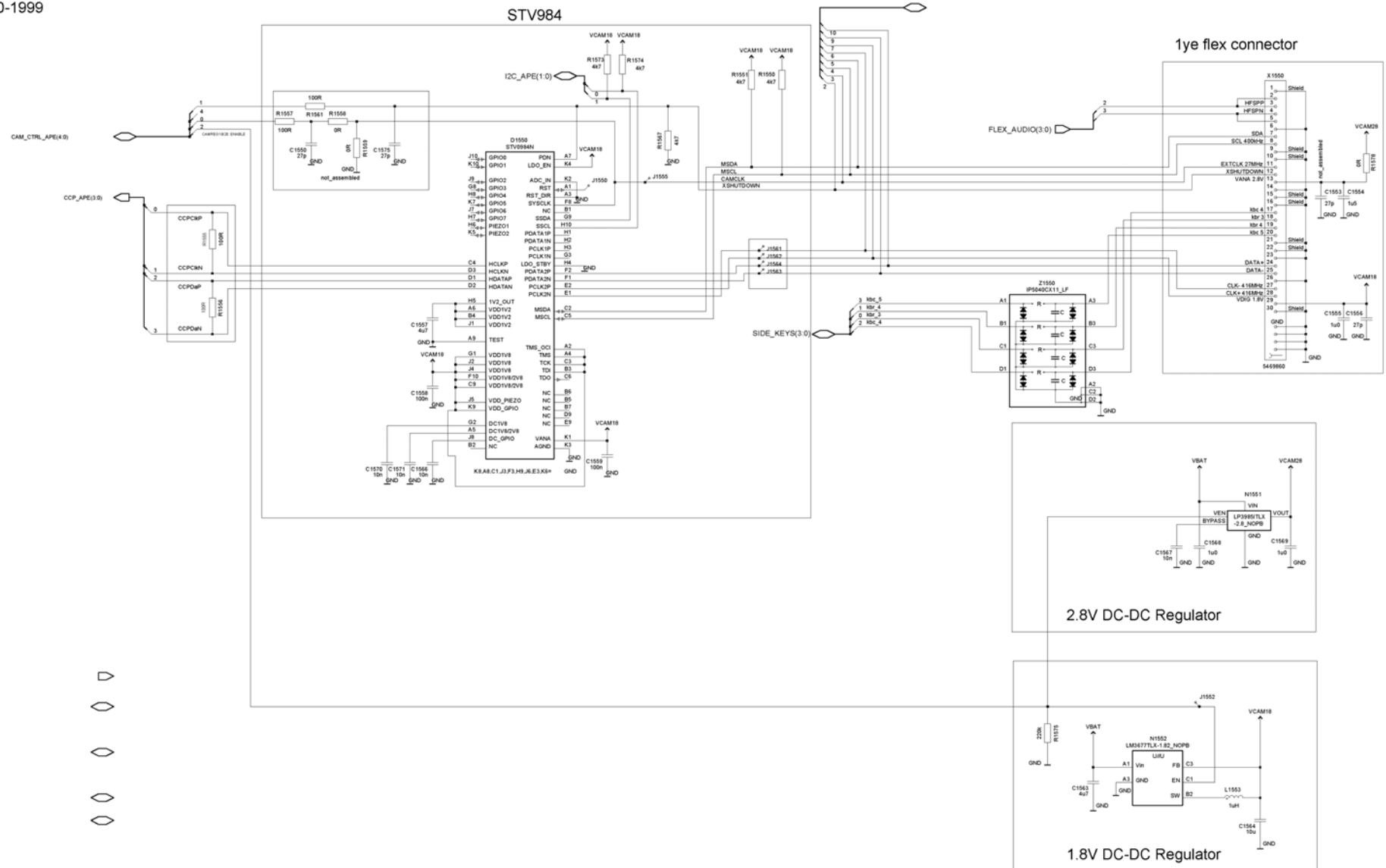
■ MMC
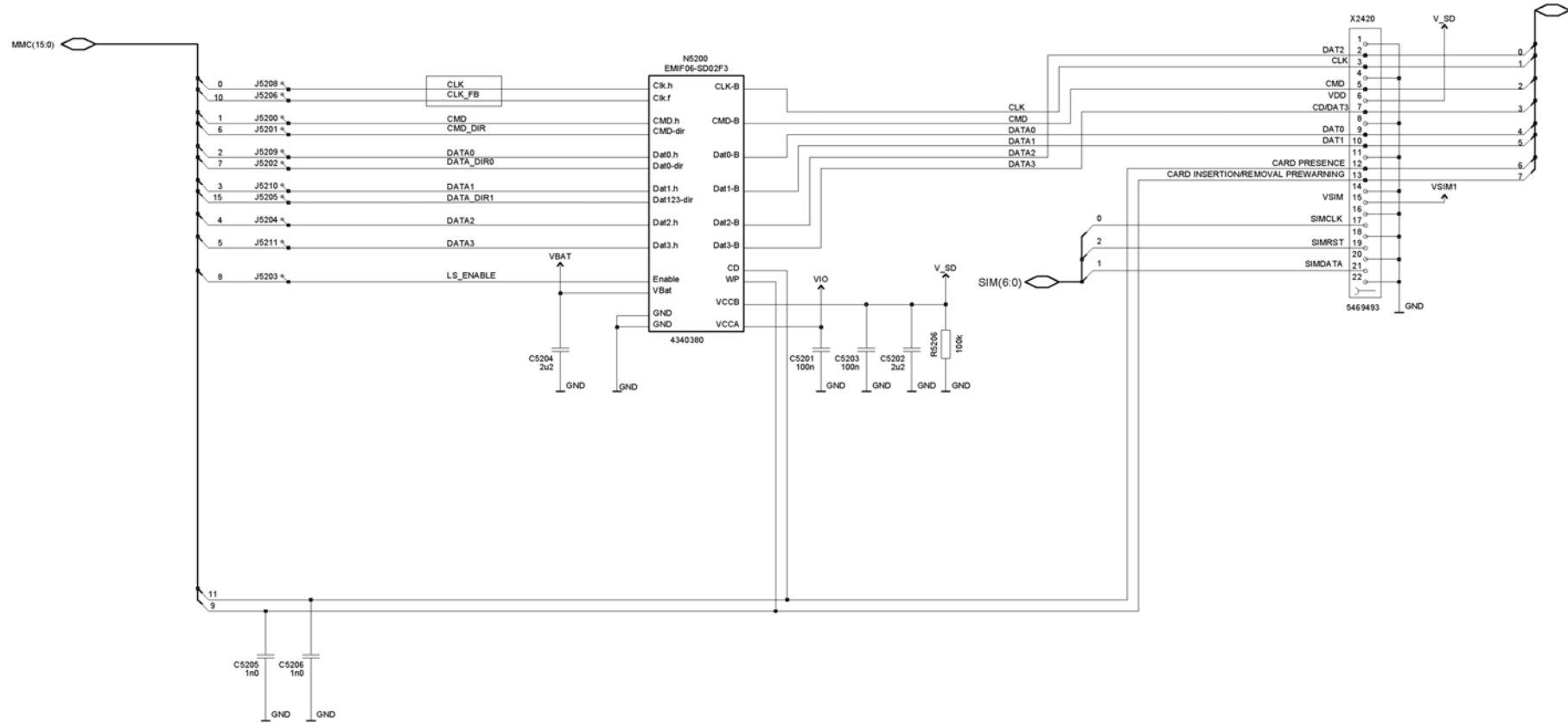
■ **UI**
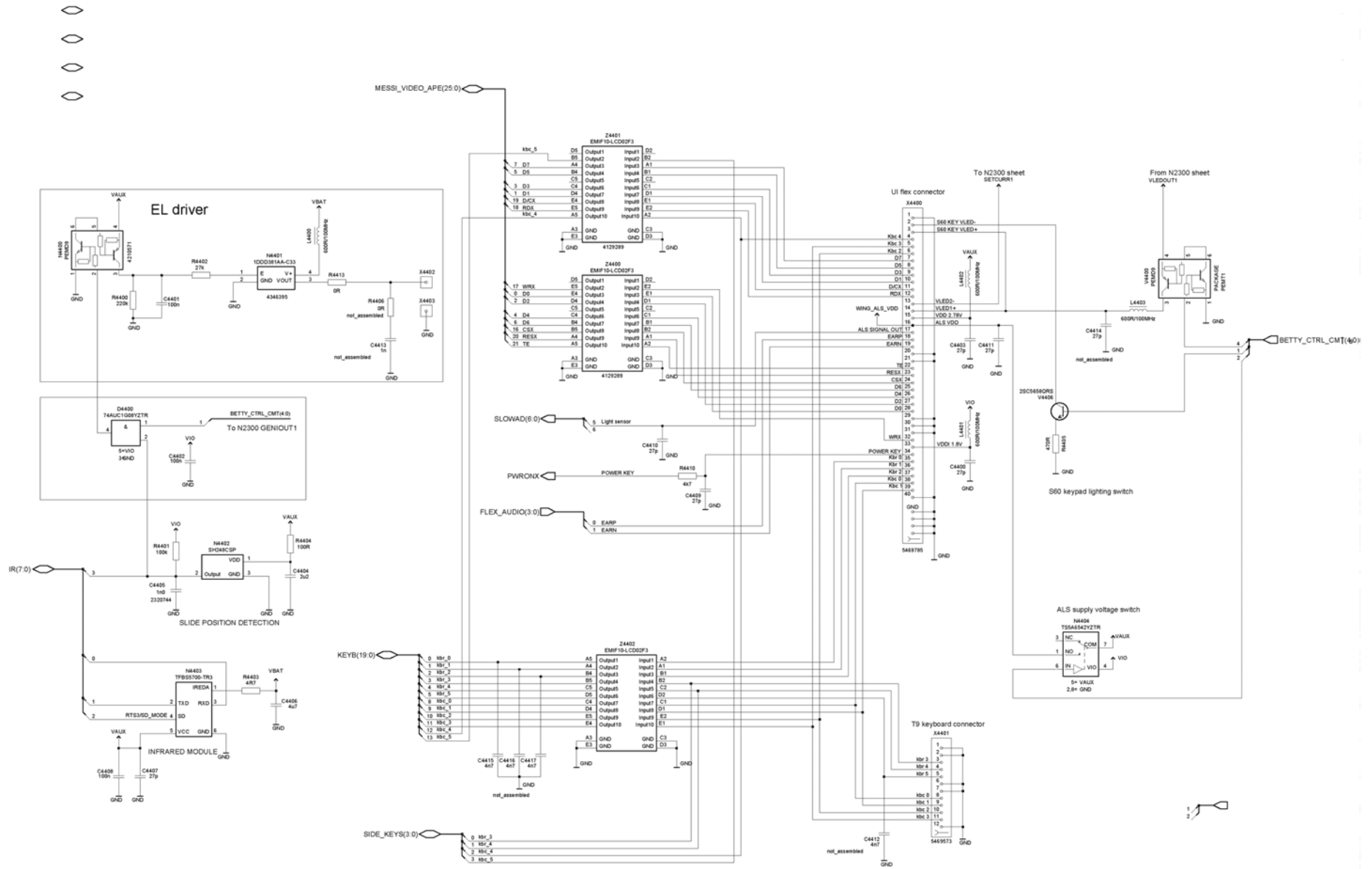
▪ BT interface
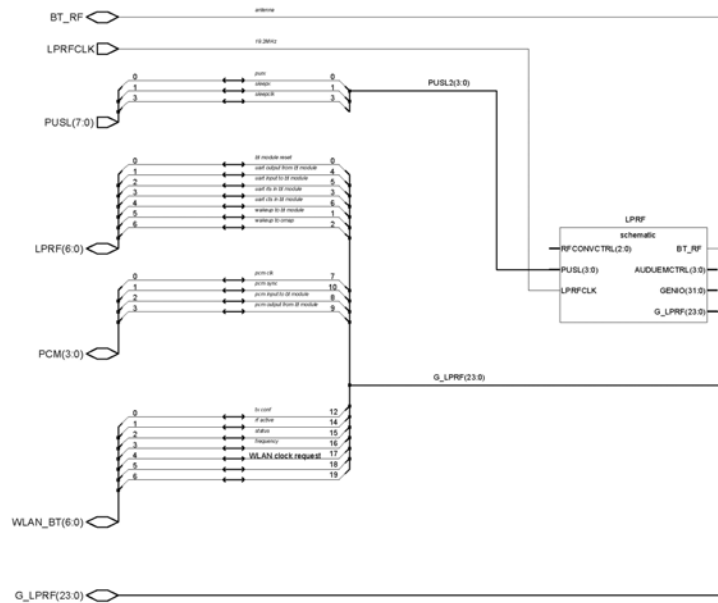
■ **BTHcost**

BLUETOOTH CIRCUIT
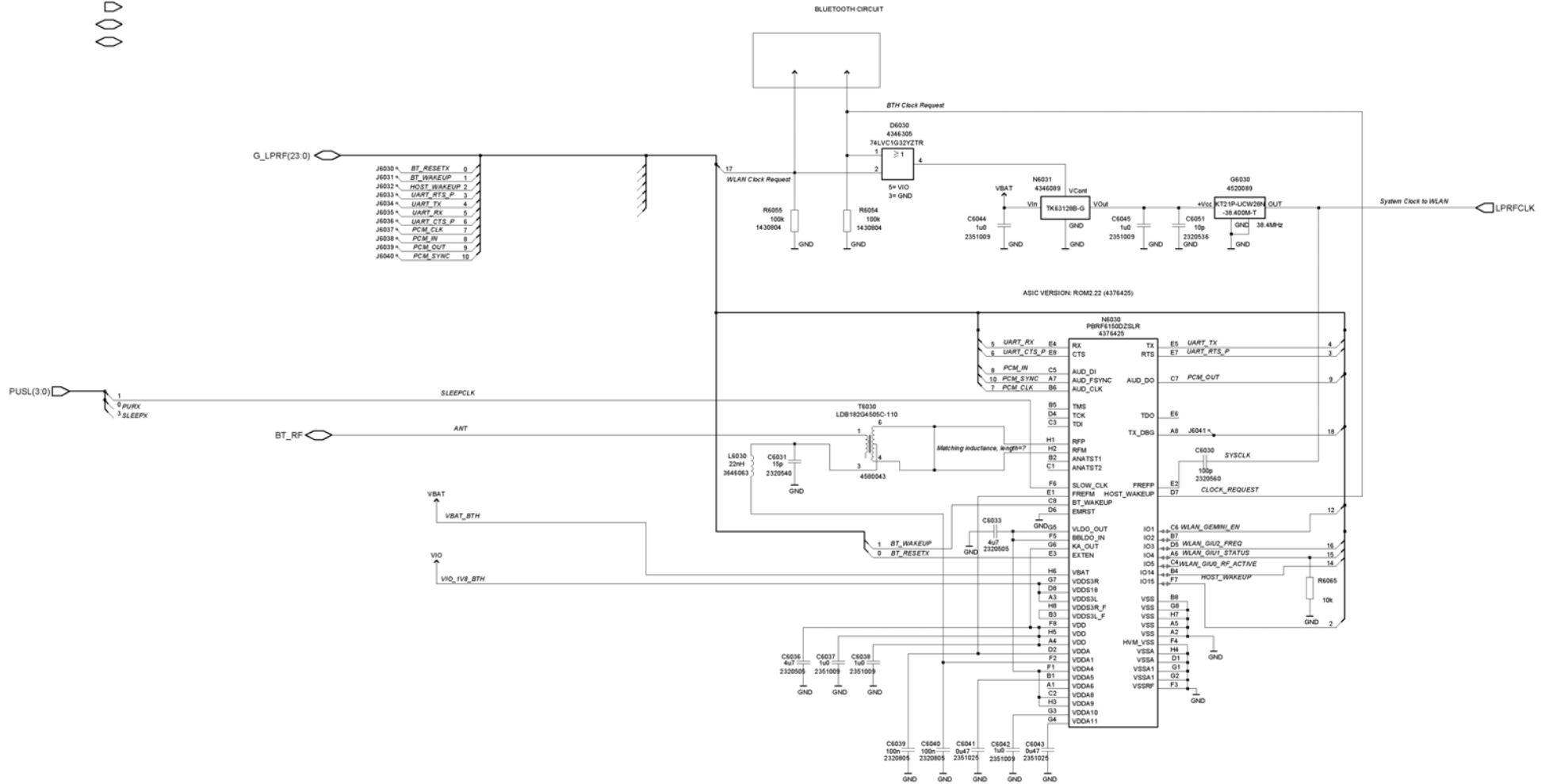
■ **WLAN**
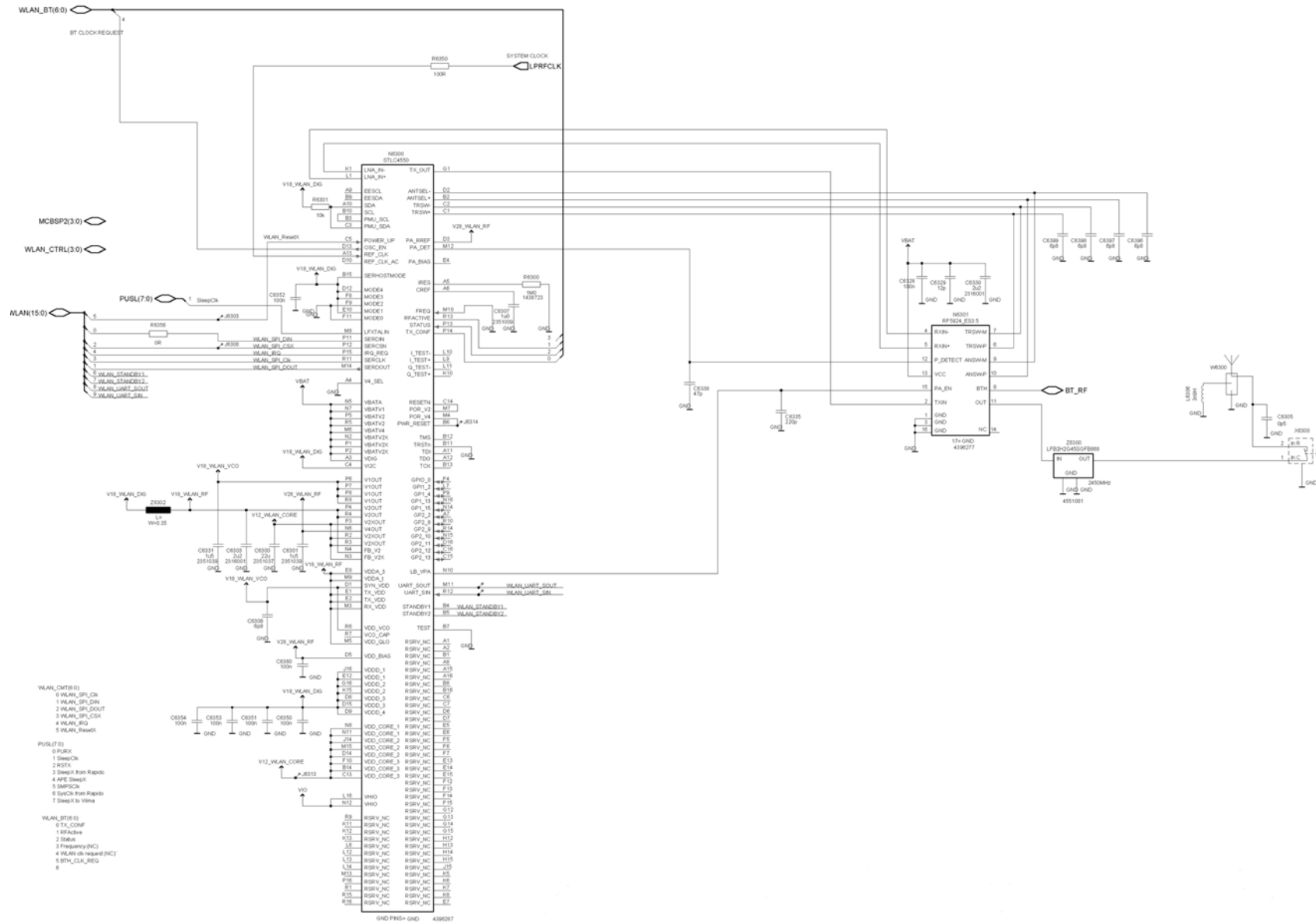
■ **RF engine**

■ Antenna interface