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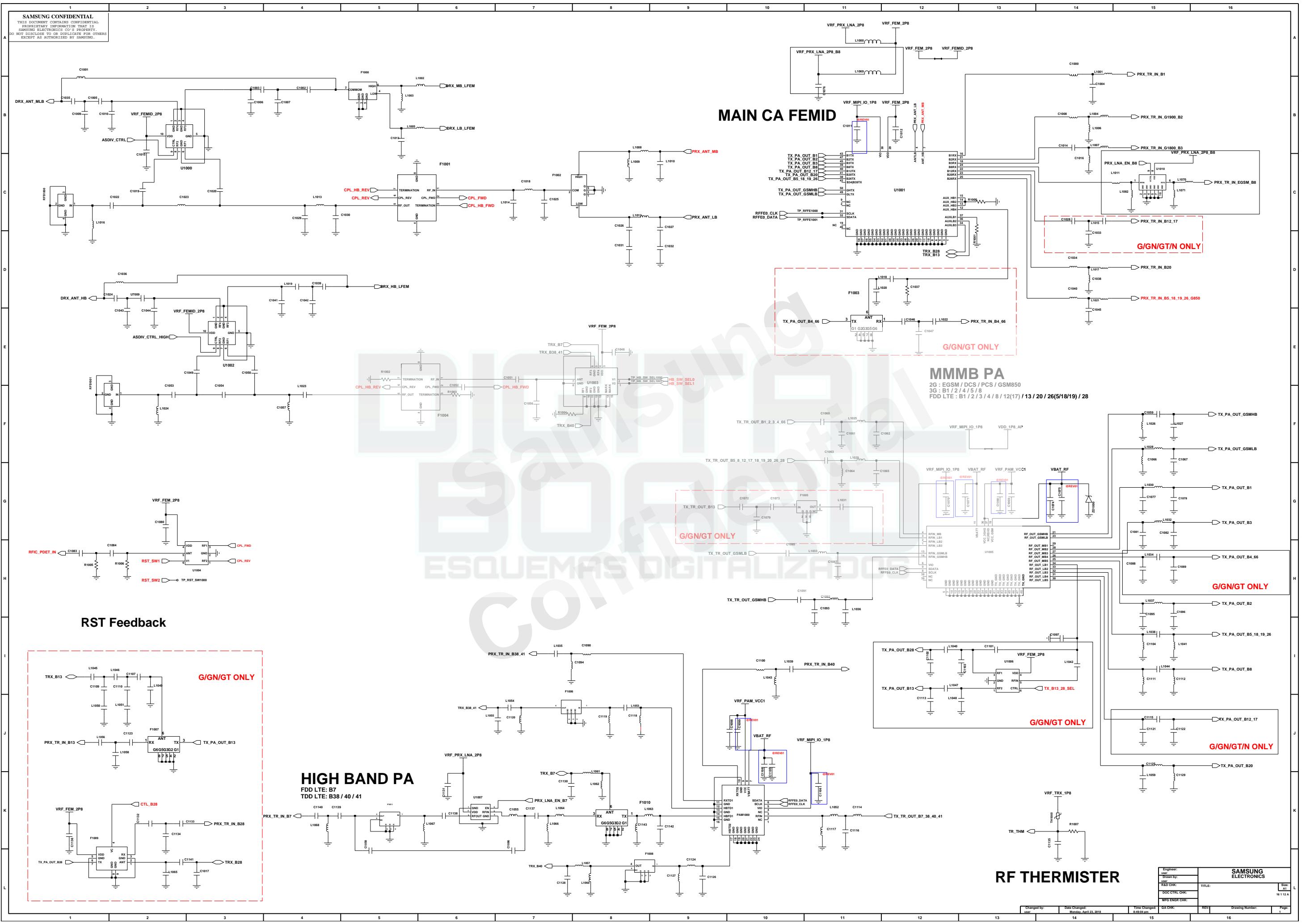
SM-A305_SVC

SM-A305F/FN/GT/G/GN
Common

2018.01.24

- sheet01 : GSM / WCDMA / LTE RF**
sheet02 : TRANCEIVER, DRX
sheet03 : SENSORS, DMB, CONNECTIVITY
sheet04 : LASSEN O +
sheet05 : PMIC(Main,IF), KEY, MOTOR, eMMC, Fingerprint
sheet06 : AUDIO, SD/SIM, SUB FPCB CON
sheet07 : CAMERA, DISPLAY

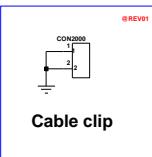
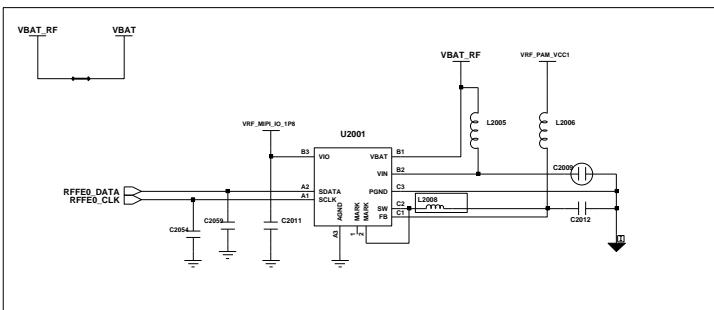
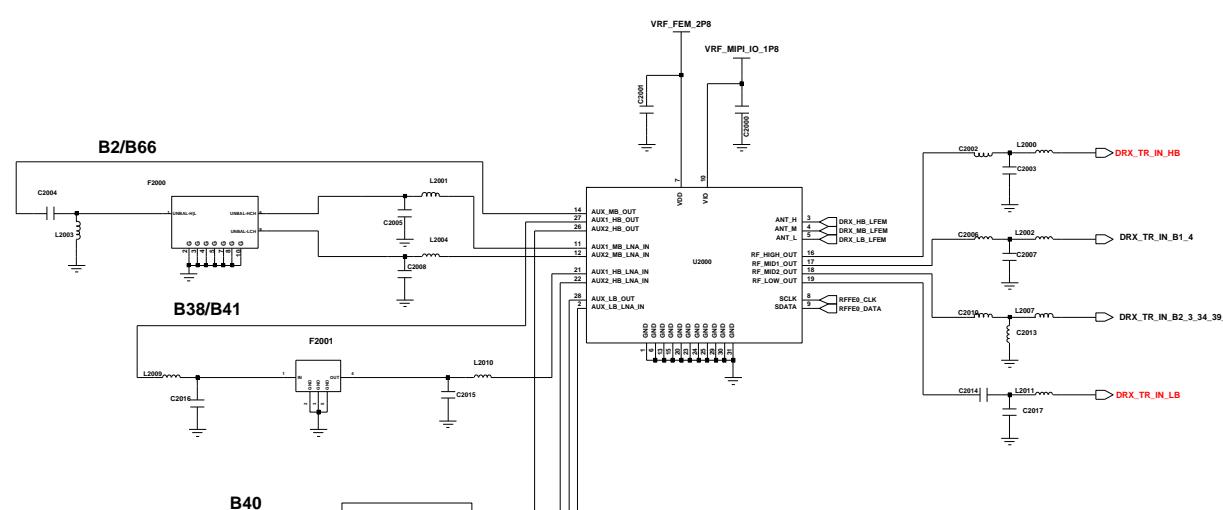
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REV:	Drawing Number:	Page:
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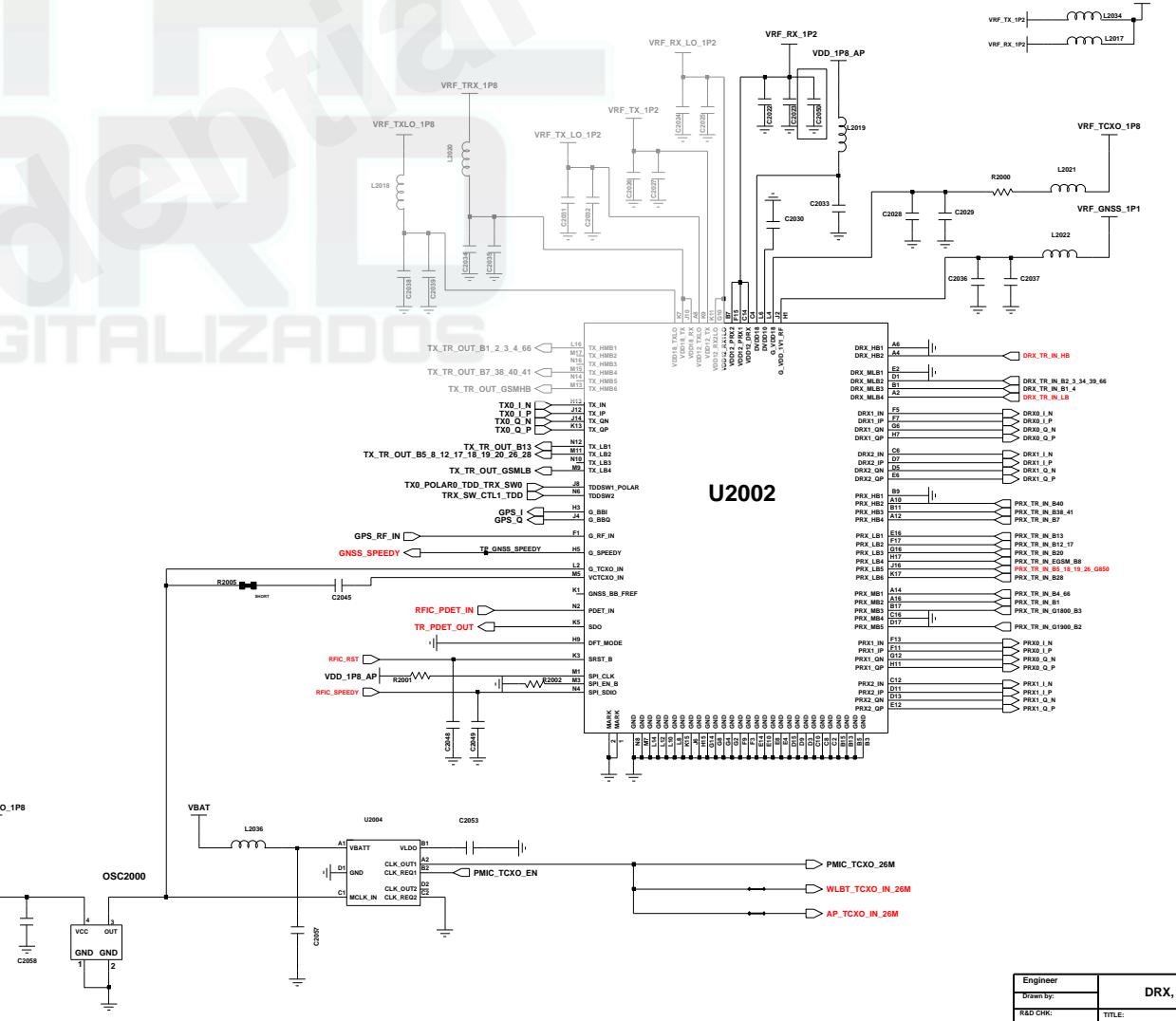
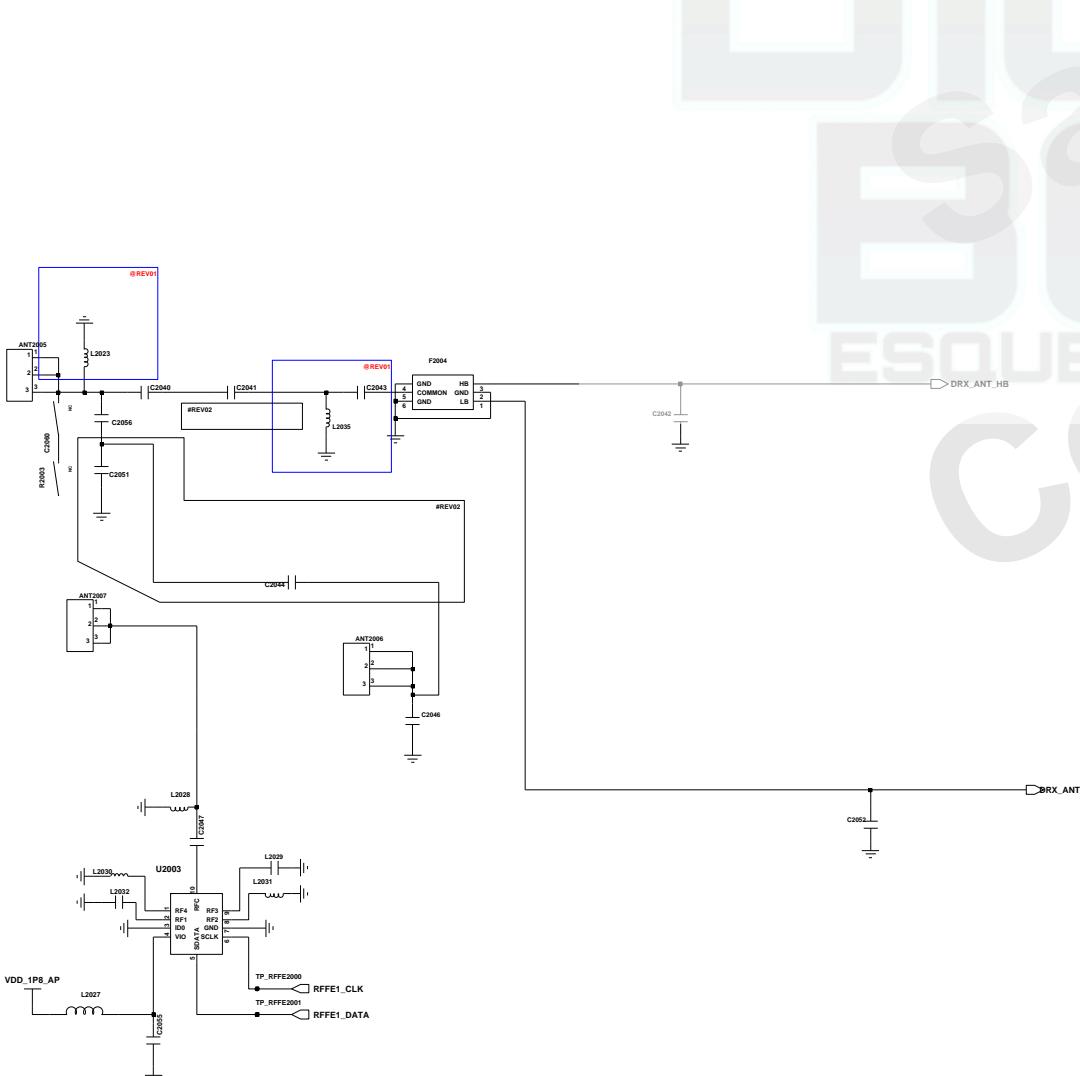
APT MODULATOR

DRX

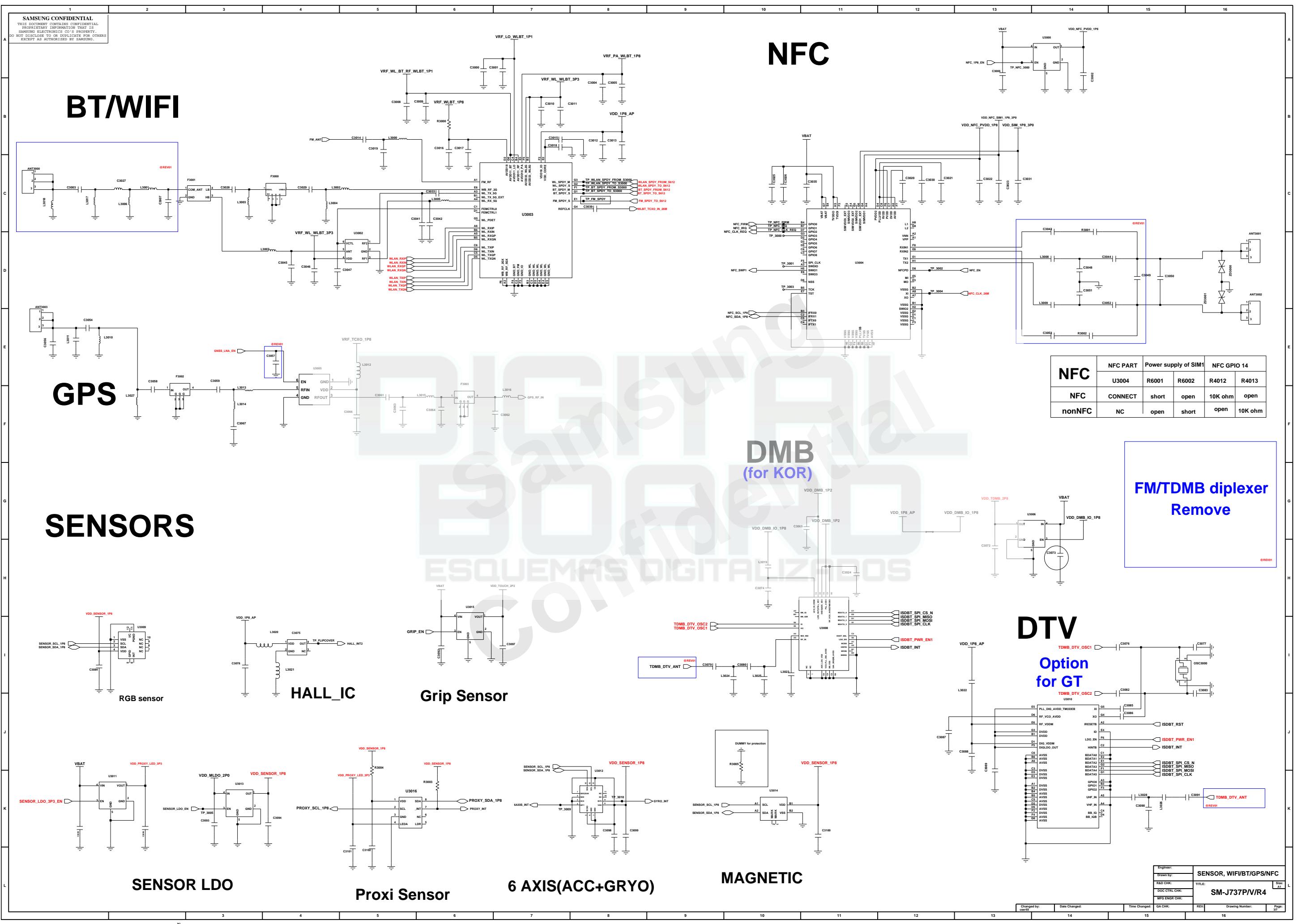


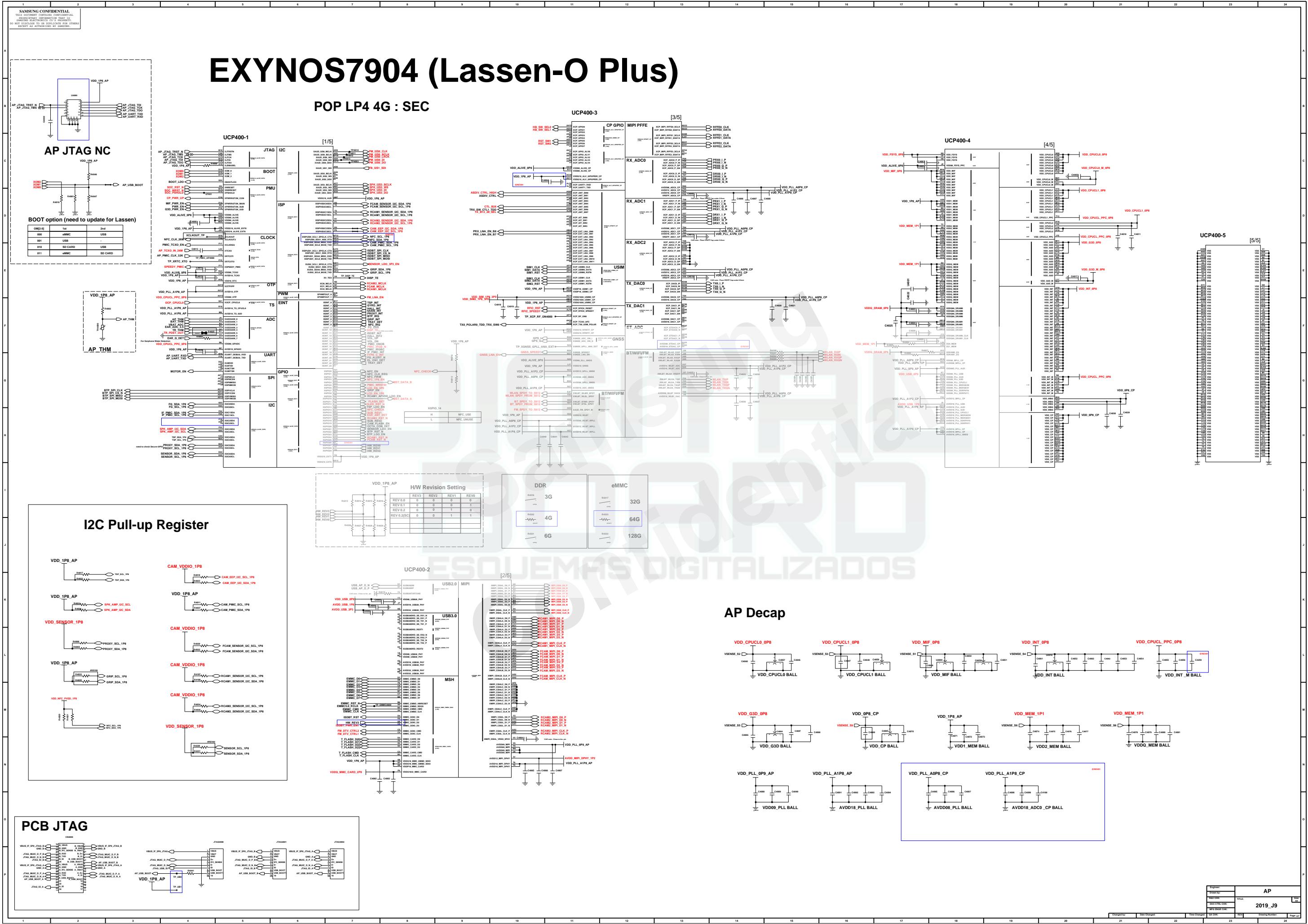
GND

TRANCEIVER

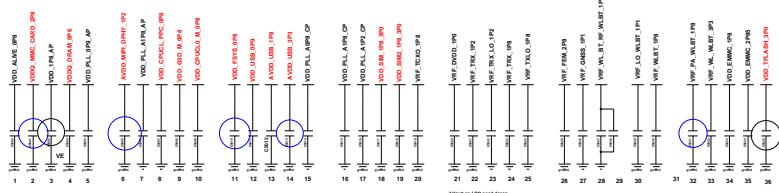


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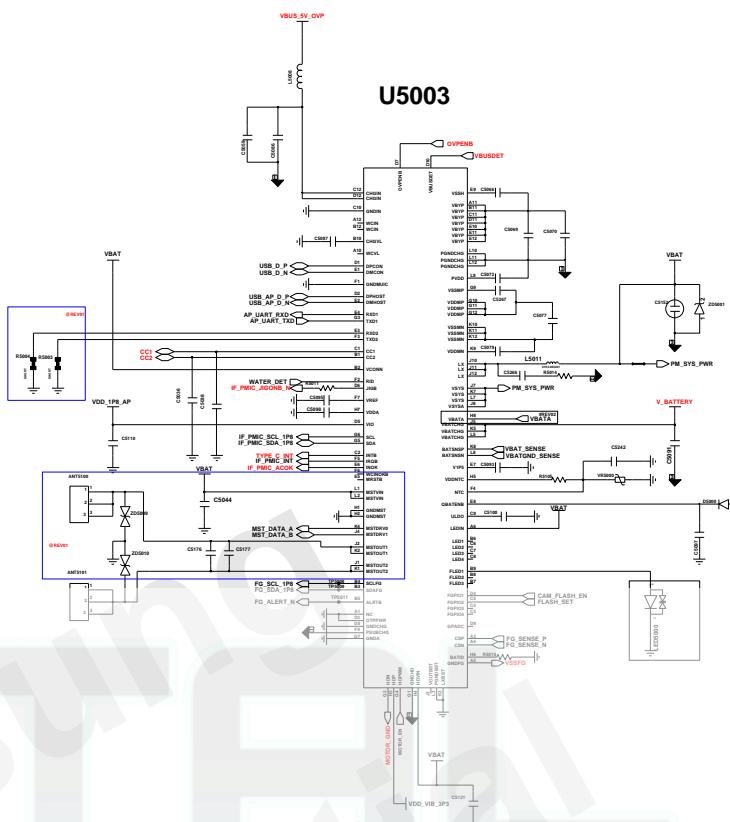
MAIN_PMIC



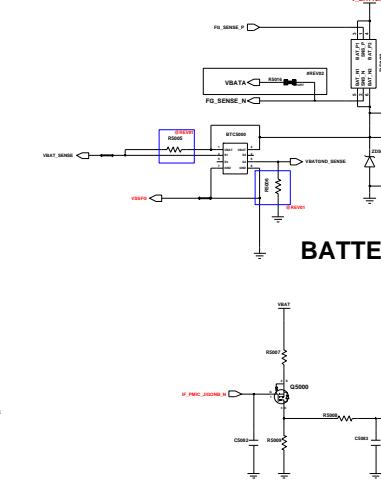
Detailed schematic diagram of the U5002-3 board showing connections for GND, PMC A, and various PMC modules (PMC_TCK0, PMC_OBDR, PMC_IROB_N, PMC_IROB_S, PMC_WRSTB, CP_PWR_UP, SPEEDY_PMC, GND_PWR_IN).

IF_PMIC

U5003

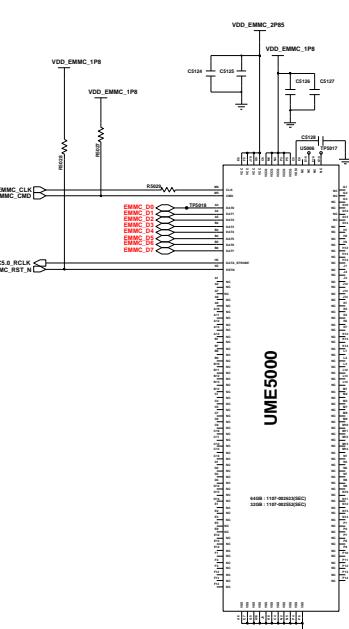


BATTERY CON



IF PMIC(S2MU106)

64GB eMMC 5.1



MOTOR

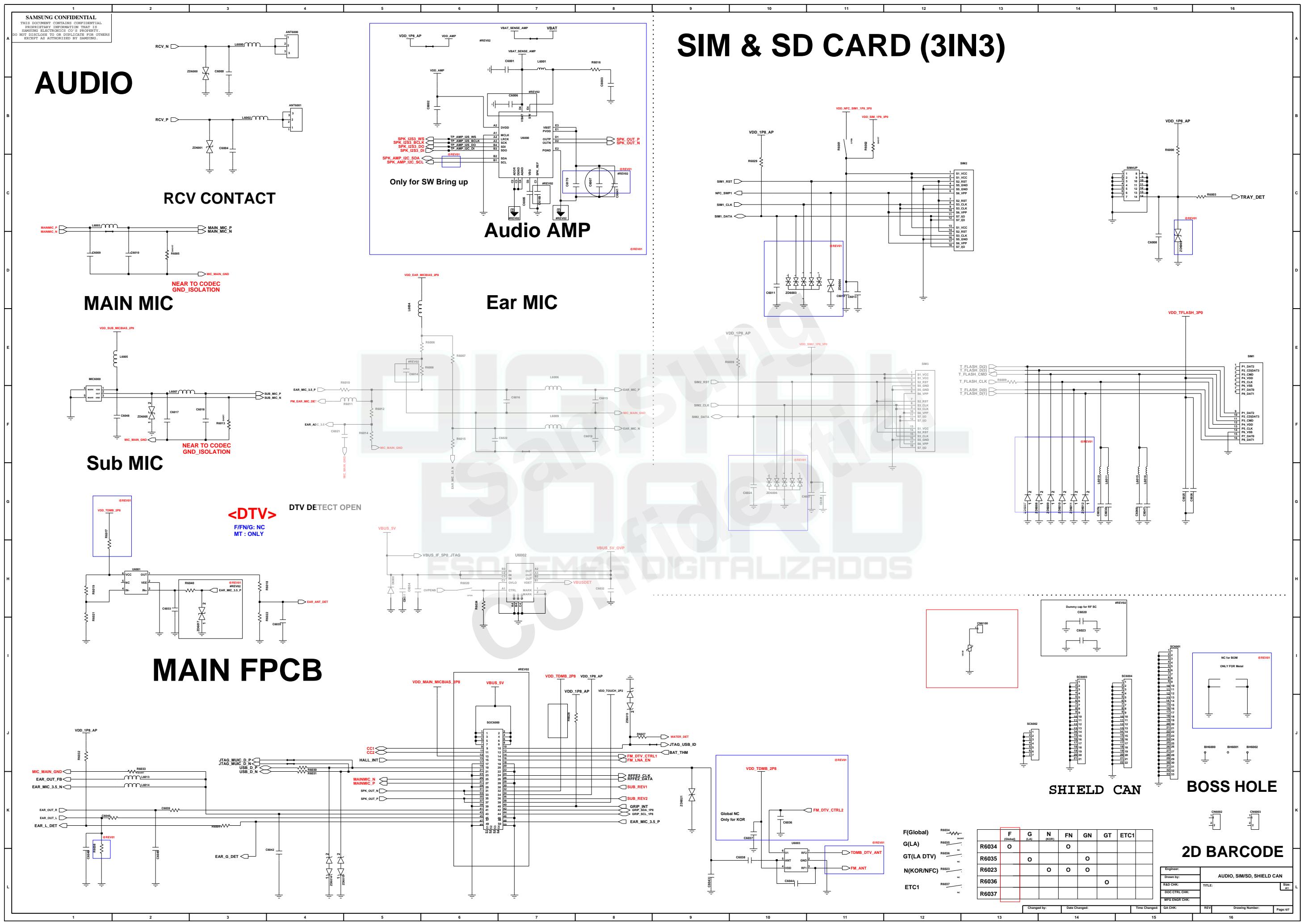
VOLUME KEY

POWER KEY



FPS PWR

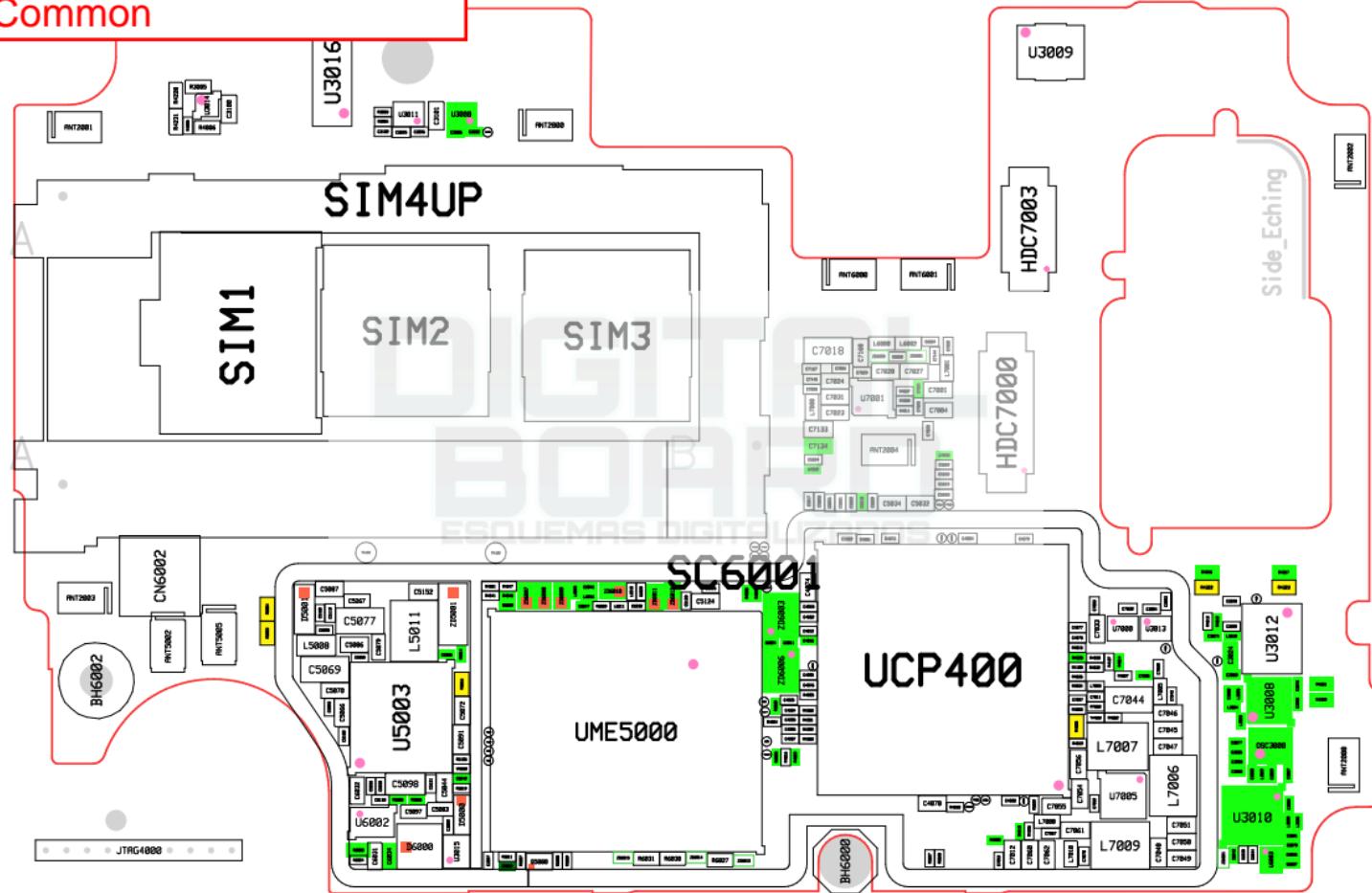
Finger Print Sensor

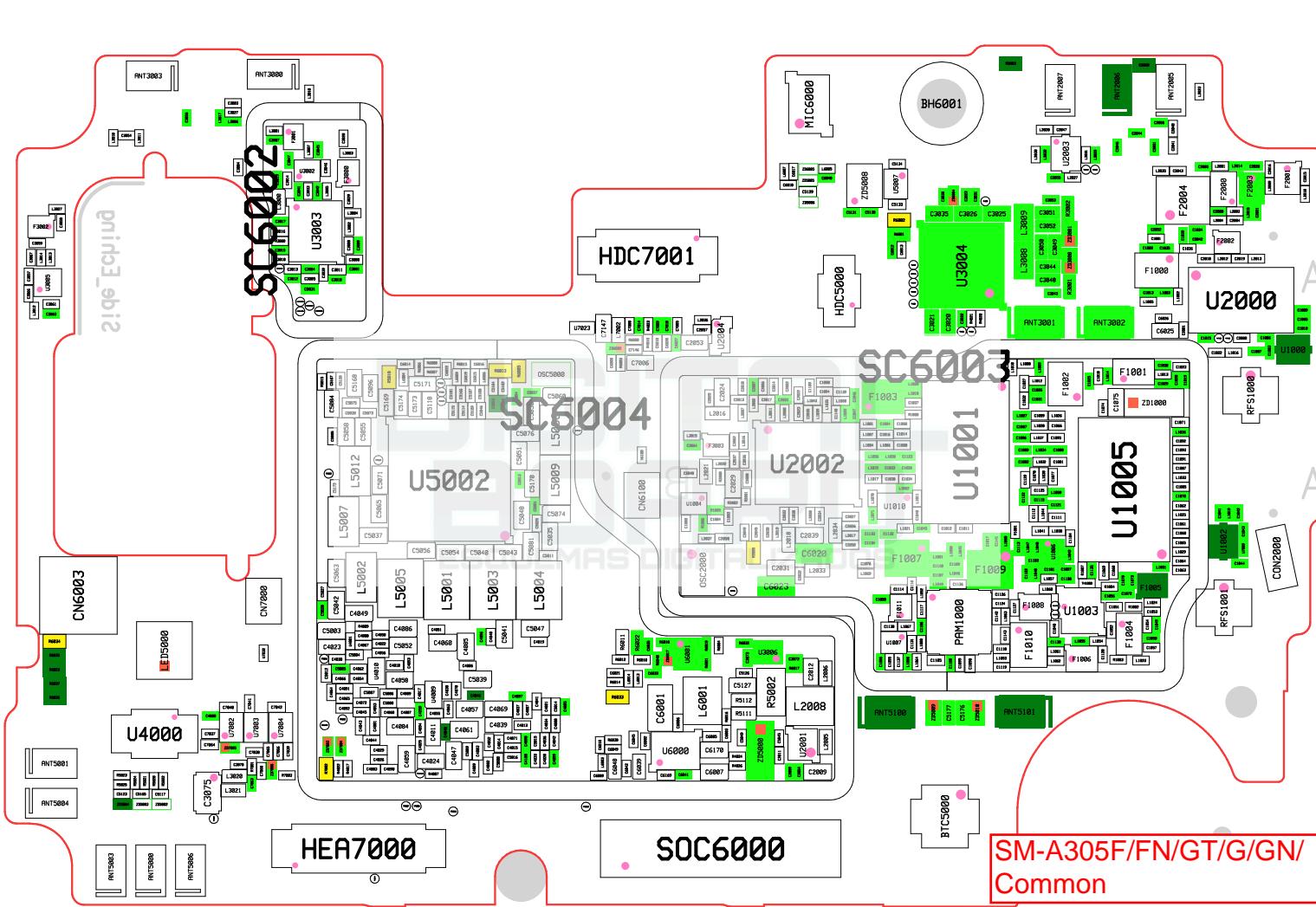


6.38" FHD+ DISPLAY

SM-A305F/FN/GT/G/GN/

Common





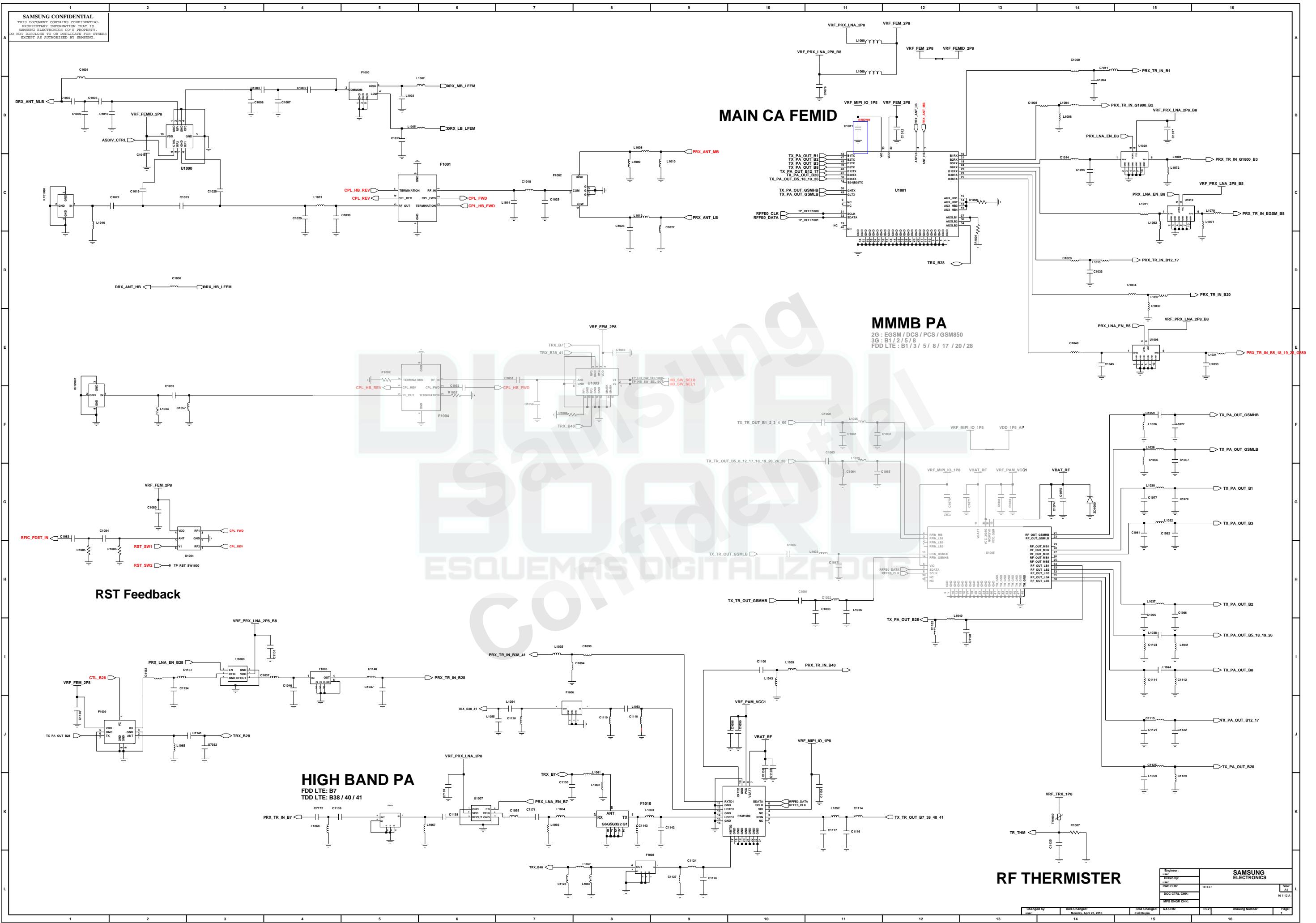
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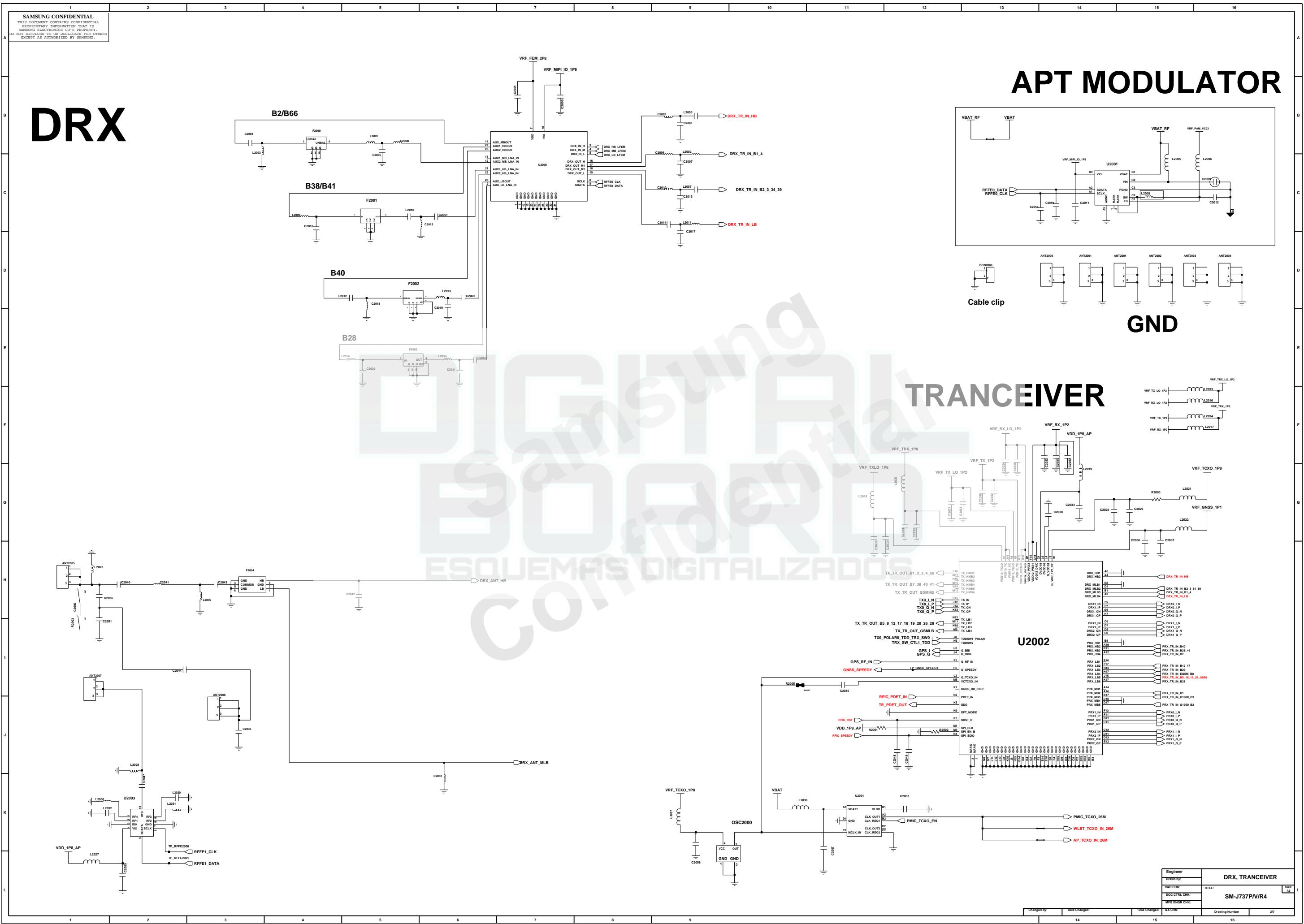
SM-A305YN_SVC

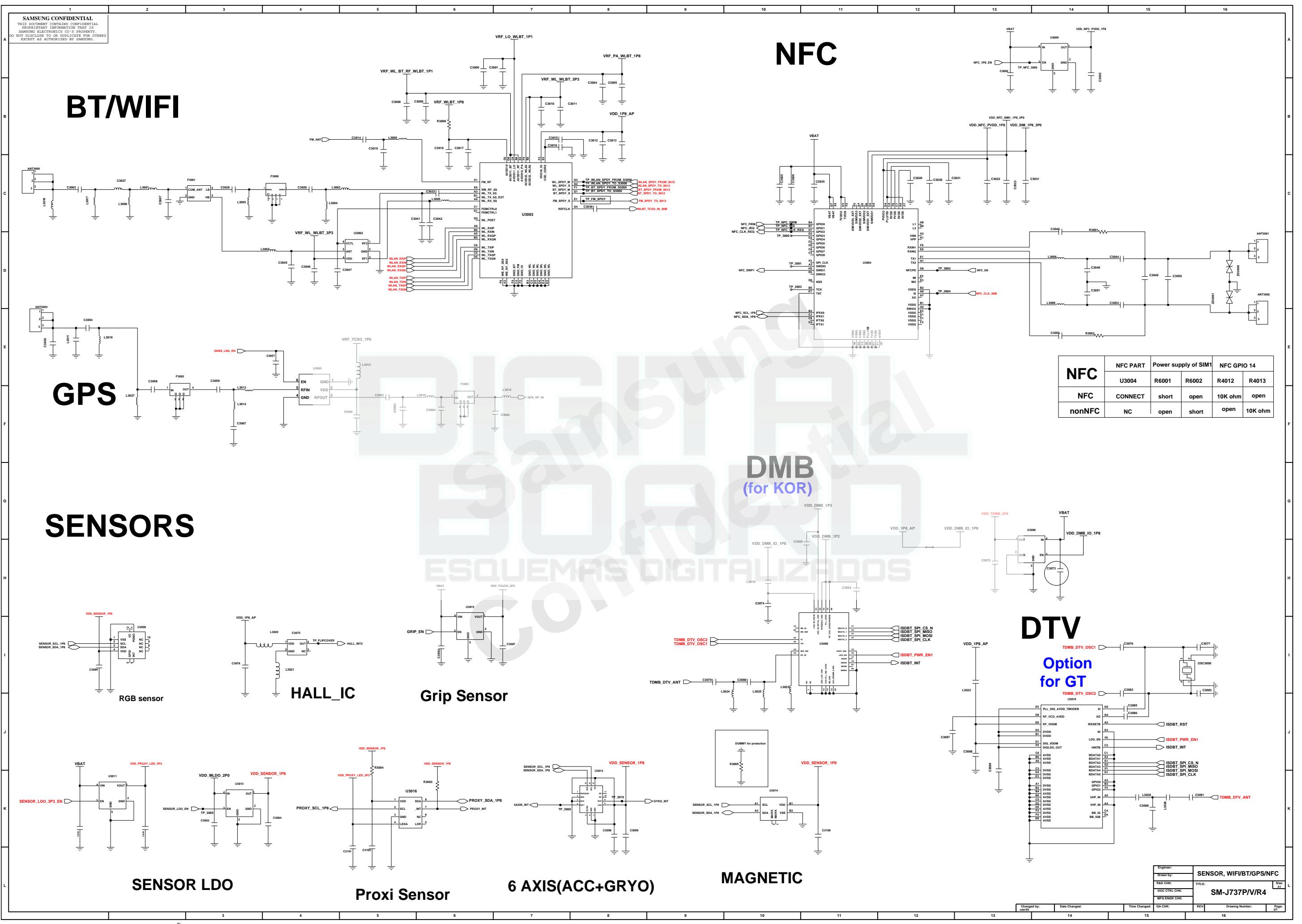
2019.03.19

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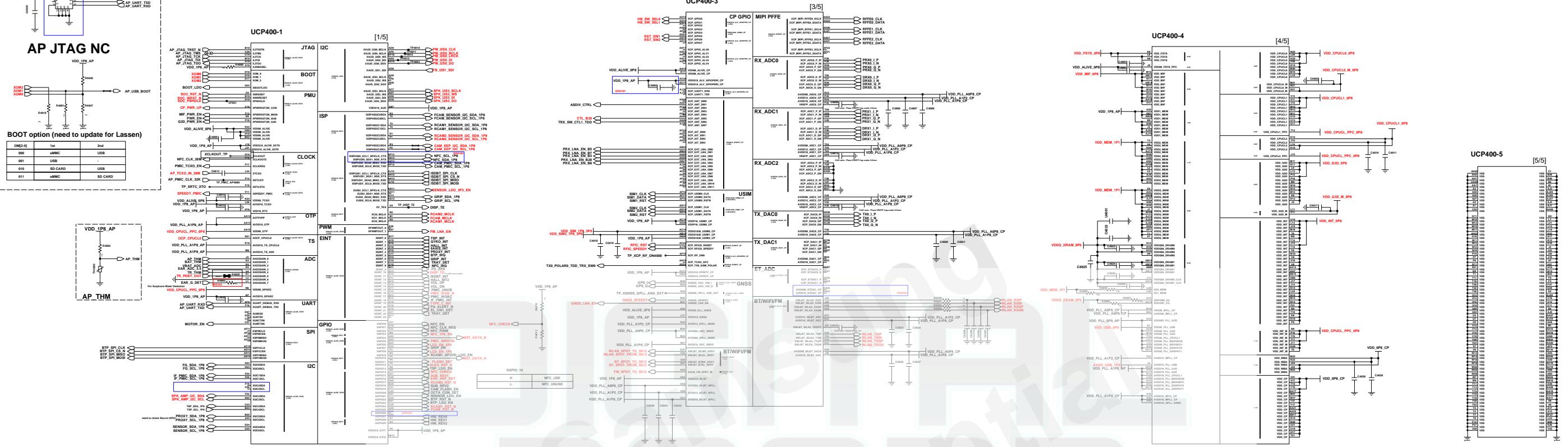




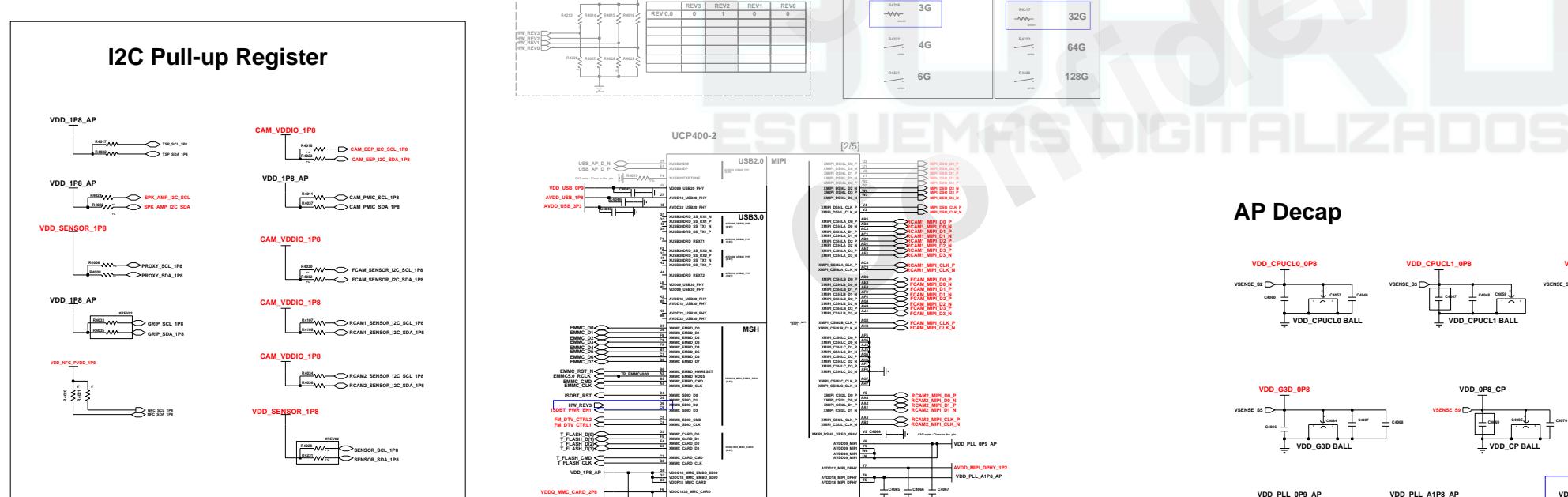


EXYNOS7904 (Lassen-O Plus)

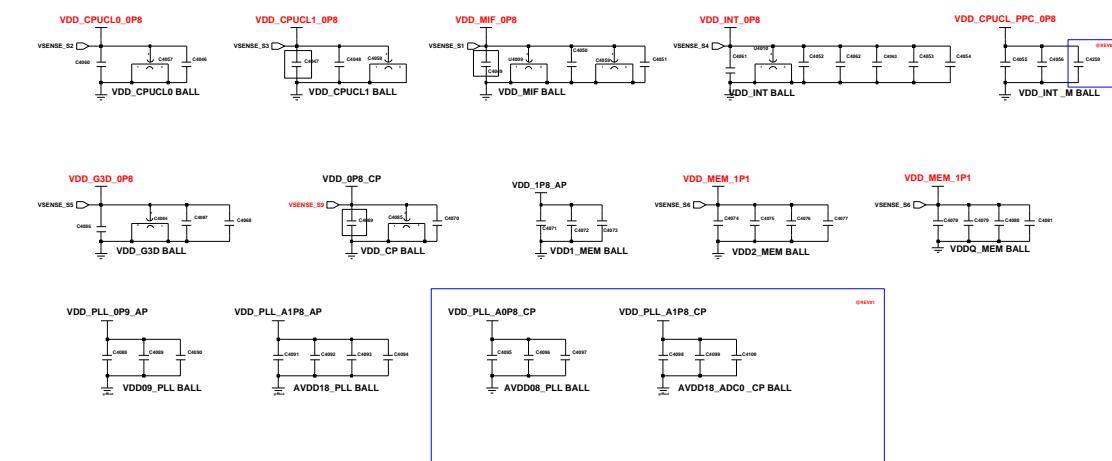
POP LP4 4G : SEC



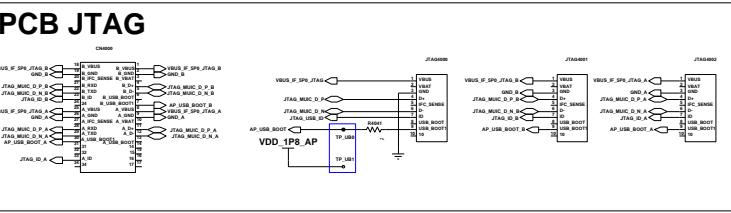
I2C Pull-up Register



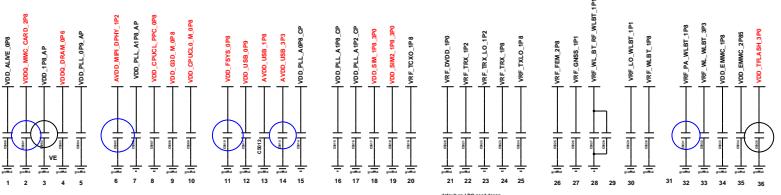
AP Decap



PCB JTAG



MAIN_PMIC

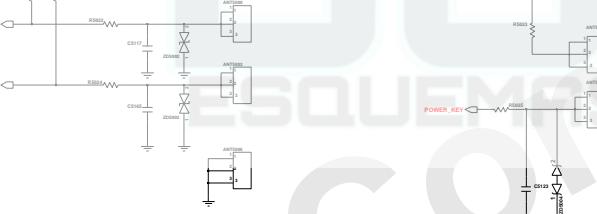


The diagram illustrates the internal structure of the U5002-1 chip, organized into several functional groups:

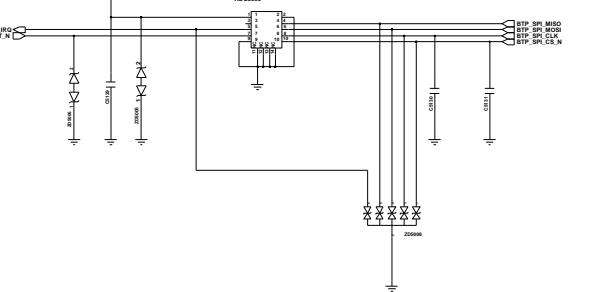
- Power Management:** Includes VDD_MIF_0P5, VDD_MIF_0P9, VDD_INT_0P8, VDD_QSD_0P8, VDD_MEM_1P1, VDD_LLDO_1P1, VDD_LLDO_2P0, VDD_UPS_0P5, and VDD_UPS_0P9.
- Memory Control:** Features VSENSE_1 through VSENSE_9, each connected to memory blocks like SRAM, DRAM, and SRAM2.
- Processor and Clocking:** Contains AP_PMC_CLK_32K, PMC_TCXO_EN, PMC_TCXO_20K, SOC_RST_N, SOC_WRST_N, and SOC_PSHOLD.
- Timing and Control:** Includes PMIC_PWR_EN, PMIC_QSDEN_N, PMIC_WRSTB_N, PMIC_QDR_N, PMIC_IODN_N, and SOC_PSHOLD.
- System Integration:** Shows connections to GND, VDD, and various logic blocks labeled with part numbers like C5047, C5048, C5049, C5050, C5051, C5052, C5053, C5054, C5055, C5056, C5057, C5058, C5059, C5060, C5061, C5062, C5063, C5064, C5065, C5066, C5067, C5068, C5069, C5070, C5071, C5072, C5073, C5074, C5075, C5076, C5077, C5078, C5079, C5080, C5081, C5082, C5083, C5084, C5085, C5086, C5087, C5088, C5089, C5090, C5091, C5092, C5093, C5094, C5095, C5096, C5097, C5098, C5099, C50100, C50101, C50102, C50103, C50104, C50105, C50106, C50107, C50108, C50109, C50110, C50111, C50112, C50113, C50114, C50115, C50116, C50117, C50118, C50119, C50120, C50121, C50122, C50123, C50124, C50125, C50126, C50127, C50128, C50129, C50130, C50131, C50132, C50133, C50134, C50135, C50136, C50137, C50138, C50139, C50140, C50141, C50142, C50143, C50144, C50145, C50146, C50147, C50148, C50149, C50150, C50151, C50152, C50153, C50154, C50155, C50156, C50157, C50158, C50159, C50160, C50161, C50162, C50163, 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The diagram shows a circuit connection. A vertical line labeled **VDD_VIB_3P3** connects to the top of a diode symbol (Q119). The cathode of this diode is connected to the base of a PNP transistor (Q2051). The collector of Q2051 is connected to ground. The collector of Q2051 is also connected to the gate of a MOSFET (CS1160). The drain of CS1160 is connected to ground. The source of CS1160 is connected to the top of another diode symbol (Q119). The cathode of this second diode is connected to the top of a PNP transistor (Q2051). The collector of Q2051 is connected to ground. The collector of Q2051 is also connected to the gate of a MOSFET (ANTSO62). The drain of ANTS062 is connected to ground. The source of ANTS062 is connected to the top of a PNP transistor (Q2051). The collector of Q2051 is connected to ground. The collector of Q2051 is also connected to the gate of a MOSFET (ANTSO60). The drain of ANTS060 is connected to ground. The source of ANTS060 is connected to the top of a PNP transistor (Q2051). The collector of Q2051 is connected to ground.

VOLUME KEY



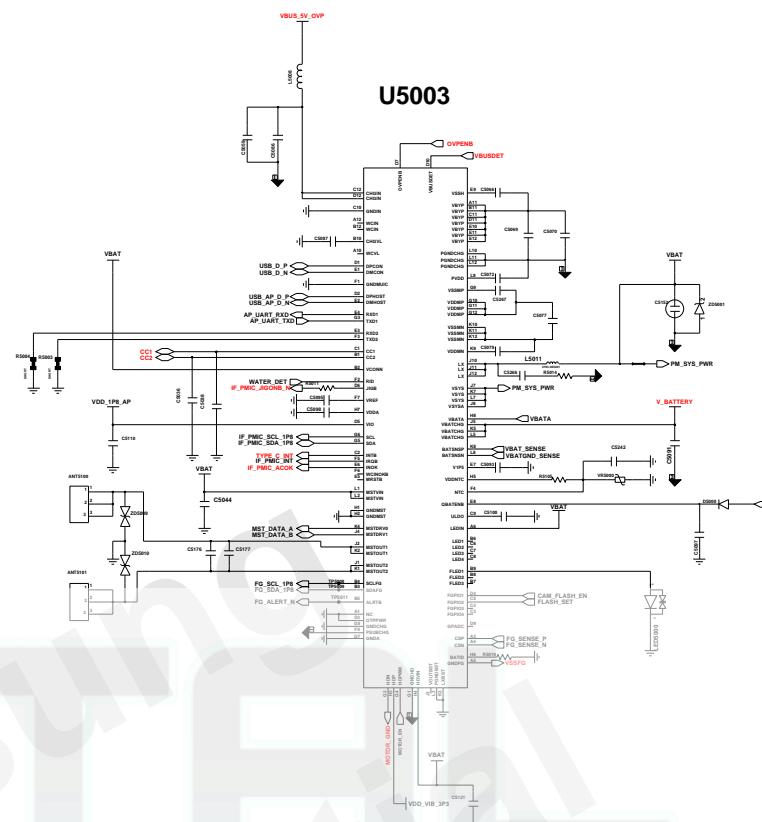
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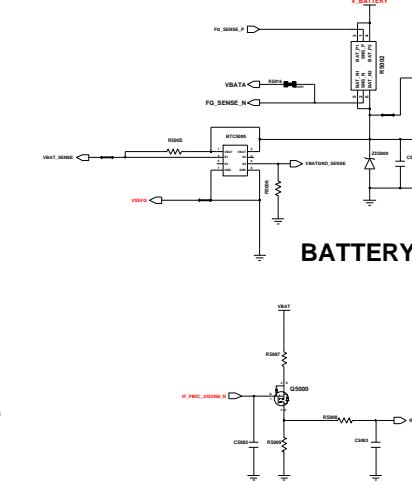
Finger Print Sensor

IF_PMIC

U5003

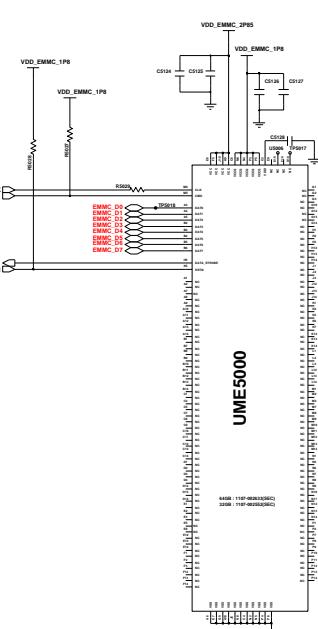


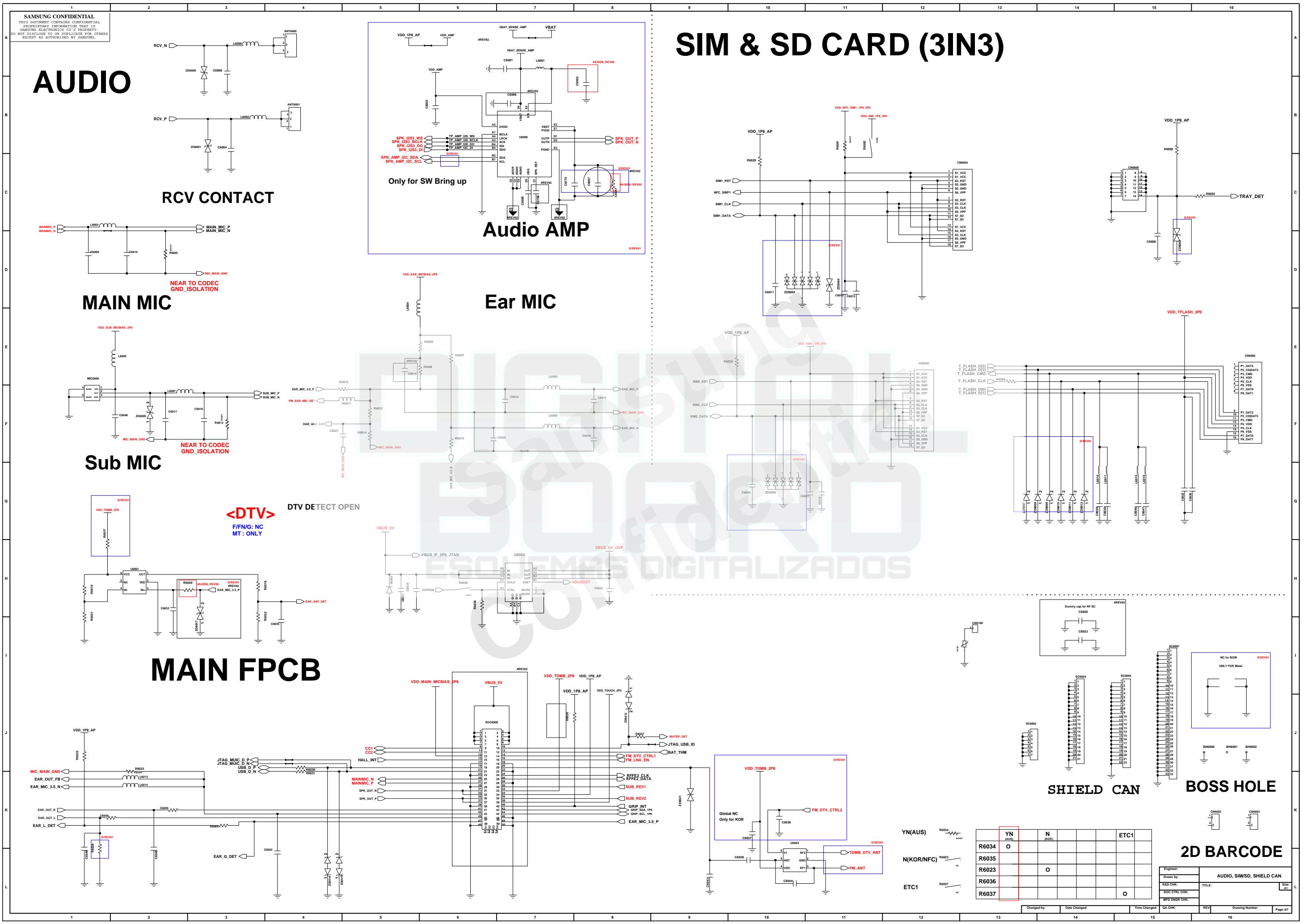
BATTERY CON



IF PMIC(S2MU106)

32GB eMMC 5.1





6.38" FHD+ DISPLAY