U400-B

MT6789 - SBS

VGPU

VPROC_B

VCORE

VPROC_L

VMODEM

AVDD EMI

[5] DVDD_GPU_PMIC_FB
[5] DVDD_GPU_PMIC_GND
DVDD_GPU
S100 0R/NC 0402L
S101 0R/NC 0402L
M23 DVDD_GPU
N21 DVDD_GPU
N22 DVDD_GPU
N23 DVDD_GPU
P22 DVDD_GPU
P23 DVDD_GPU
R22 DVDD_GPU
R23 DVDD_GPU
T22 DVDD_GPU
T23 DVDD_GPU
C101 4.3uF
C103 4.3uF
C105 2.2UF

DVDD_SRAM_GPU
C108 2.2UF
C110 1uF
M22 DVDD_SRAM_GPU

[5] DVDD_CORE_PMIC_FB
[5] DVDD_CORE_PMIC_GND
DVDD_CORE
S106 0R/NC 0402L
S107 0R/NC 0402L
M11 DVDD_CORE
M14 DVDD_CORE
M18 DVDD_CORE
N10 DVDD_CORE
N11 DVDD_CORE
N14 DVDD_CORE
N18 DVDD_CORE
P11 DVDD_CORE
P14 DVDD_CORE
P18 DVDD_CORE
R10 DVDD_CORE
R11 DVDD_CORE
R14 DVDD_CORE
R15 DVDD_CORE
R19 DVDD_CORE
T15 DVDD_CORE
T18 DVDD_CORE
T19 DVDD_CORE
U18 DVDD_CORE
U19 DVDD_CORE
V19 DVDD_CORE
AB7 DVDD_CORE
C113 4.3uF
C115 4.3uF
C116 1uF

DVDD_SRAM_CORE
C122 NC
C124 1uF
C126 1uF
N17 DVDD_SRAM_CORE
P9 DVDD_SRAM_CORE
P15 DVDD_SRAM_CORE
P16 DVDD_SRAM_CORE
R16 DVDD_SRAM_CORE

AVDD075_PMU
K11 AVDD075_EMI
K12 AVDD075_EMI
K14 AVDD075_EMI
K16 AVDD075_EMI
K18 AVDD075_EMI
K20 AVDD075_EMI
C127 4.3uF

EMI_VDDQ
L11 AVDDQ_EMI
L13 AVDDQ_EMI
L17 AVDDQ_EMI
L19 AVDDQ_EMI
L21 AVDDQ_EMI
C128 4.3uF
C130 1uF

DVDD_PROC_B
DVDD_PROC_B_PMIC_FB [5]
DVDD_PROC_B_PMIC_GND [5]
S102 0R/NC 0402L
S103 0R/NC 0402L
T10 DVDD_PROC_B
T11 DVDD_PROC_B
U10 DVDD_PROC_B
U11 DVDD_PROC_B
W10 DVDD_PROC_B
Y10 DVDD_PROC_B
Y11 DVDD_PROC_B
AA11 DVDD_PROC_B
AB10 DVDD_PROC_B
AB11 DVDD_PROC_B
AC10 DVDD_PROC_B
AC11 DVDD_PROC_B
AD10 DVDD_PROC_B
AD11 DVDD_PROC_B
AE11 DVDD_PROC_B
AE10 DVDD_PROC_B
AF11 DVDD_PROC_B
AG8 DVDD_PROC_B
AG9 DVDD_PROC_B
AG10 DVDD_PROC_B
C100 4.3uF
C102 4.3uF
C104 4.3uF
C106 4.3uF
C107 4.3uF

DVDD_SRAM_PROC_B
DVDD_SRAM_PROC_B W11
C109 2.2UF
C111 100nF

DVDD_PROC_L
DVDD_PROC_L_PMIC_FB [5]
DVDD_PROC_L_PMIC_GND [5]
S104 0R/NC 0402L
S105 0R/NC 0402L
U12 DVDD_PROC_L
V15 DVDD_PROC_L
V16 DVDD_PROC_L
W12 DVDD_PROC_L
W15 DVDD_PROC_L
Y15 DVDD_PROC_L
AA12 DVDD_PROC_L
AA16 DVDD_PROC_L
AB12 DVDD_PROC_L
AB15 DVDD_PROC_L
AB16 DVDD_PROC_L
AC12 DVDD_PROC_L
AC16 DVDD_PROC_L
AD16 DVDD_PROC_L
AD17 DVDD_PROC_L
AE13 DVDD_PROC_L
AE17 DVDD_PROC_L
AF13 DVDD_PROC_L
AF14 DVDD_PROC_L
AF15 DVDD_PROC_L
AF16 DVDD_PROC_L
AF17 DVDD_PROC_L
C112 4.3uF
C114 4.3uF
C117 1uF

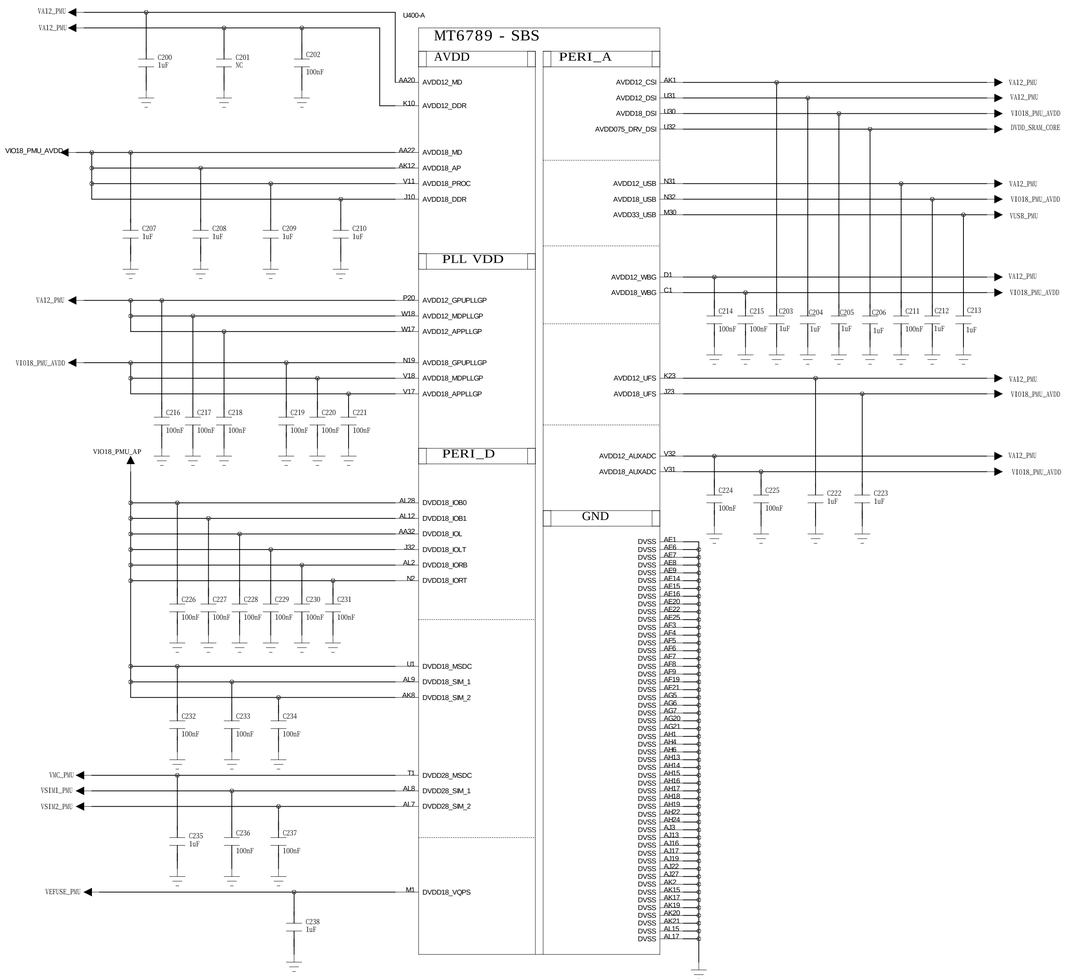
DVDD_SRAM_PROC_L
DVDD_SRAM_PROC_L T12
DVDD_SRAM_PROC_L W16
C118 2.2UF
C119 1uF

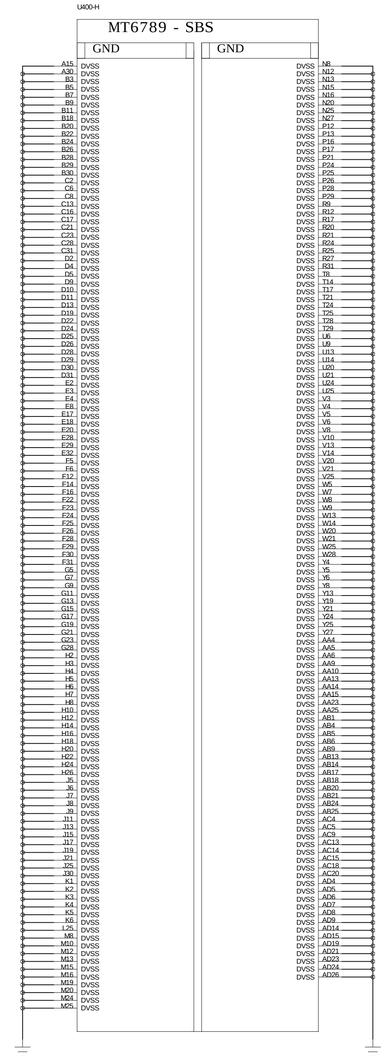
DVDD_MODEM
DVDD_MODEM_PMIC_FB [5]
DVDD_MODEM_PMIC_GND [5]
S108 0R/NC 0402L
S109 0R/NC 0402L
U23 DVDD_MODEM
V22 DVDD_MODEM
V23 DVDD_MODEM
W19 DVDD_MODEM
W23 DVDD_MODEM
Y17 DVDD_MODEM
Y18 DVDD_MODEM
Y23 DVDD_MODEM
AA17 DVDD_MODEM
AA24 DVDD_MODEM
C120 4.3uF
C121 4.3uF
C123 NC
C125 NC

DVDD_SRAM_MODEM
DVDD_SRAM_MODEM U22
DVDD_SRAM_MODEM V20
C129 4.3uF
C131 2.2UF
C132 100nF

VIO18_PMU
R100 100K 1%
[3] AUX_IN1_NTC
R102 NCP15XH103F03RC
R101 100K 1%
[3] AUX_IN2_NTC
R103 NCP15XH103F03RC

VIO18_PMU
R104 191K/NC
[3] AUX_IN2_NTC
R105 100K 1%


U400-A
MT6789 - SBS
AVDD
PERI_A
PLL VDD
PERI_D
GND
VA12_PMU
VIO18_PMU_AVDD
VIO18_PMU_AP
VMC_PMU
VSIM1_PMU
VSIM2_PMU
VEFUSE_PMU
AA20 AVDD12_MD
K10 AVDD12_DDR
AA22 AVDD18_MD
AK12 AVDD18_AP
V11 AVDD18_PROC
J10 AVDD18_DDR
P20 AVDD12_GPUPLLGP
W18 AVDD12_MDPLLGP
W17 AVDD12_APPLLGP
N19 AVDD18_GPUPLLGP
V18 AVDD18_MDPLLGP
V17 AVDD18_APPLLGP
AL28 DVDD18_IOB0
AL12 DVDD18_IOB1
AA32 DVDD18_IOL
J32 DVDD18_IOLT
AL2 DVDD18_IORB
N2 DVDD18_IORT
U1 DVDD18_MSDC
AL9 DVDD18_SIM_1
AK8 DVDD18_SIM_2
T1 DVDD28_MSDC
AL8 DVDD28_SIM_1
AL7 DVDD28_SIM_2
M1 DVDD18_VQPS
AK1 AVDD12_CSI
U31 AVDD12_DSI
U30 AVDD18_DSI
U32 AVDD075_DRV_DSI
N31 AVDD12_USB
N32 AVDD18_USB
M30 AVDD33_USB
D1 AVDD12_WBG
C1 AVDD18_WBG
K23 AVDD12_UFS
J23 AVDD18_UFS
V32 AVDD12_AUXADC
V31 AVDD18_AUXADC
VA12_PMU
VIO18_PMU_AVDD
VDD_SRAM_CORE
VUSB_PMU
C200 1uF
C201 NC
C202 100nF
C207 1uF
C208 1uF
C209 1uF
C210 1uF
C214 100nF
C215 100nF
C203 1uF
C204 1uF
C205 1uF
C206 1uF
C211 100nF
C212 1uF
C213 1uF
C216 100nF
C217 100nF
C218 100nF
C219 100nF
C220 100nF
C221 100nF
C224 100nF
C225 100nF
C222 1uF
C223 1uF
C226 100nF
C227 100nF
C228 100nF
C229 100nF
C230 100nF
C231 100nF
C232 100nF
C233 100nF
C234 100nF
C235 1uF
C236 100nF
C237 100nF
C238 1uF
DVSS AE1 AE6 AE7 AE9 AE9 AE14 AE15 AE16 AE20 AE22 AF25 AF3 AF4 AF5 AF6 AF7 AF8 AF9 AF19 AF21 AG5 AG6 AG7 AG20 AG21 AH1 AH4 AH6 AH13 AH14 AH15 AH16 AH17 AH18 AH19 AH22 AH24 AJ3 AJ13 AJ16 AJ17 AJ19 AJ22 AJ27 AK2 AK15 AK17 AK19 AK20 AK21 AL15 AL17 DVSS


U400-H
MT6789 - SBS
GND
GND
A15 A30 B3 B5 B7 B9 B11 B18 B20 B22 B24 B26 B28 B29 C2 C4 C8 C13 C15 C17 C21 C23 C28 C31 D2 D4 D5 D9 D10 D11 D13 D22 D24 D25 D28 D30 D31 E2 E3 E4 E8 E11 E16 E20 E28 E29 E32 F3 F11 F12 F14 F22 F23 F24 F26 F28 F30 F31 G5 G7 G9 G11 G13 G15 G17 G19 G21 G23 G28 H2 H3 H4 H5 H7 H8 H10 H12 H14 H16 H18 H20 H22 H24 H26 J6 J7 J8 J9 J11 J13 J15 J17 J19 J21 J25 J30 K1 K2 K3 K4 K5 K6 L25 M8 M10 M12 M13 M15 M16 M19 M20 M24 M25
DVSS
N8 N12 N13 N15 N16 N20 N25 N27 P12 P13 P16 P17 P21 P24 P25 P26 P28 P29 R9 R12 R17 R20 R21 R24 R25 R27 R31 T8 T14 T17 T21 T24 T25 T28 T29 U6 U9 U13 U14 U20 U21 U24 U25 V3 V4 V5 V6 V8 V10 V13 V14 V20 V21 V25 W5 W7 W8 W9 W13 W14 W20 W21 W25 W28 Y4 Y5 Y6 Y13 Y18 Y21 Y24 Y25 Y27 AA4 AA5 AA6 AA9 AA10 AA13 AA14 AA15 AA23 AA25 AB1 AB4 AB5 AB6 AB9 AB13 AB14 AB17 AB18 AB20 AB21 AB24 AB25 AC4 AC5 AC9 AC13 AC14 AC15 AC18 AC20 AD4 AD5 AD6 AD7 AD8 AD9 AD14 AD15 AD19 AD21 AD23 AD24 AD26

U400-C

MT6789 - SBS

CKEN

[6,7] SRCLKENA0 — AB30 SRCLKENA0

[6,15] SRCLKENA1 — AA29 SRCLKENA1

SPMI

AH28 SPMI_SCL

AH29 SPMI_SDA

MTK Test Pin

U16 TP_APPLLGP

U17 TN_APPLLGP

AH12 CDMSP5A

AB19 BBTDC

AL20 BBTCK_P

AL21 BBTCK_N

J27 TESTMODE

32K

[6] RTC32K_CK — AJ28 RTC32K_CK

NC

A1 DUMMY

A32 DUMMY

AL1 DUMMY

AL32 DUMMY

PMIC_IF

SYSRSTB — AK10 — SYSRSTB [6,7]

WATCHDOG — AK28 — WATCHDOG [6,7]

AP_GOOD — AJ29 — TP300 — TP_0.5

PWRAP_SPI0_CSN — Y30 — PWRAP_SPI0_CSN [3,6]

PWRAP_SPI0_CK — Y28 — PWRAP_SPI0_CK [6]

PWRAP_SPI0_MO — Y29 — PWRAP_SPI0_MO [6]

PWRAP_SPI0_MI — AA30 — PWRAP_SPI0_MI [6]

AUD_DAT_MISO0 — AA26 — AUD_DAT_MISO0 [6]

AUD_DAT_MISO1 — AA27 — AUD_DAT_MISO1 [6]

AUD_CLK_MOSI — Y26 — AUD_CLK_MOSI [6]

AUD_DAT_MOSI0 — AB26 — AUD_DAT_MOSI0 [3,6]

AUD_DAT_MOSI1 — AB27 — AUD_DAT_MOSI1 [3,6]

AUD_SYNC_MOSI — AB29 — AUD_SYNC_MOSI [3,6]

AUD_SYNC_MISO — AB28 — AUD_SYNC_MISO [6]

AUD_CLK_MISO — W27 — AUD_CLK_MISO [6]

SCP_VREQ_VAO — AB31 — SCP_VREQ_VAO [8]

UART

UTXD0 — AK29 — TP302

URXD0 — AL29 — TP301

U400-D

MT6789 - SBS

SIM

[10] SIM1_SCLK — AJ8 SIM1_SCLK

[10] SIM1_SIO — AH8 SIM1_SIO

[10] SIM1_SRST — AH6 SIM1_SRST

[10] SIM2_SCLK — AK7 SIM2_SCLK

[10] SIM2_SIO — AH7 SIM2_SIO

[10] SIM2_SRST — AJ7 SIM2_SRST

[10] INT_SIM1 — AK9 INT_SIM1

[10] INT_STB2 — AJ9 INT_SIM2

RFIC DIF

[15] RFIC0_BSI_EN — AF25 RFIC0_BSI_EN

[15] RFIC0_BSI_CK — AF24 RFIC0_BSI_CK

[15] RFIC0_BSI_D0 — AG24 RFIC0_BSI_D0

[15] RFIC0_BSI_D1 — AE24 RFIC0_BSI_D1

RFFE MIPI

[11] SCAL_AF_EN — AG27 MSC_BSI_CK_0

LCD3..3V_EN — AF27 MSC_BSI_DO_0

[17,18] MIPI1_SCLK — AE26 MSC_BSI_CK_1

[17,18] MIPI1_SDATA — AF26 MSC_BSI_DO_1

[16] MIP2_SCLK — AK27 MSC_BSI_CK_2

[16] MIP2_SDATA — AL27 MSC_BSI_DO_2

[12] GPIO_CAM_LDO_EN1 — AH26 MSC_BSI_CK_3

AJ26 MSC_BSI_DO_3

[4] TEST_R — AH25 MSC_BSI_CK_4

[4] TEST_C — AJ25 MSC_BSI_DO_4

RFFE BPI

[16] BPI_BUS0 — AB32 BPI_BUS0

[10] GPIO_CTP_RSTB — AC30 BPI_BUS1

[8] NFC_SIRCLKENA1 — AC32 BPI_BUS2

NFC_GPIO_TRX — AC26 BPI_BUS3

[16] BPI_BUS4 — AC29 BPI_BUS4

[18] BPI_BUS5 — AC28 BPI_BUS5

[16] BPI_BUS6 — AC27 BPI_BUS6

[13] ANT_CTRL0 — AC31 BPI_BUS7

[18] BPI_BUS8 — AD30 BPI_BUS8

BL_PWM — AD31 BPI_BUS9

[8] IRTX_OUT — AD28 BPI_BUS10

[8] IR_LED_PWM — AD27 BPI_BUS11

[18] BPI_BUS12 — AD32 BPI_BUS12

[7] GPIO_LCM_BIAS_EN — AE31 BPI_BUS13

[4] GPIO_DRDI_HW_ID0 — AD29 BPI_BUS14

[4] GPIO_DRDI_HW_ID1 — AE30 BPI_BUS15

[13] ANT_CTRL1 — AE29 BPI_BUS16

[13] ANT_CTRL2 — AF31 BPI_BUS17_PA_VM0

[4] GPIO_DRDI — AF32 BPI_BUS18_PA_VM1

[10] RST_FP — AE28 BPI_BUS19_OLAT0

[8] GPIO_NFC_RSTB — AE27 BPI_BUS20_OLAT1

[18] BPI_BUS21 — AF28 BPI_BUS21_OLAT2

CTP_RST1 — AF29 BPI_BUS22_OLAT3

LCD_DCV_1V8 — AF30 BPI_BUS23_ANT0

LCD_RST_1V8 — AG32 BPI_BUS24_ANT1

[13] TYPEC_EAR_ALP_SEL — AG31 BPI_BUS25_ANT2

26M

MAIN_X26M_IN — AA21 — R300 0 — PMIC_CLK_BB [6]

PMC_CLK_BB_IN [4]

RFIC AIF

TX_BB_IP0 — AK14 — LTE_TX_BB_IP0 [15]

TX_BB_IN0 — AL14 — LTE_TX_BB_IM0 [15]

TX_BB_QP0 — AJ14 — LTE_TX_BB_QP0 [15]

TX_BB_QN0 — AJ15 — LTE_TX_BB_QM0 [15]

PRX_BB_I1 — AJ18 — LTE_PRX_BB_I1 [15]

PRX_BB_Q1 — AK18 — LTE_PRX_BB_Q1 [15]

PRX_BB_I2 — AH20 — LTE_PRX_BB_I2 [15]

PRX_BB_Q2 — AJ20 — LTE_PRX_BB_Q2 [15]

DRX_BB_I1 — AL18 — LTE_DRX_BB_I1 [15]

DRX_BB_Q1 — AL19 — LTE_DRX_BB_Q1 [15]

DRX_BB_I2 — AJ21 — LTE_DRX_BB_I2 [15]

DRX_BB_Q2 — AH21 — LTE_DRX_BB_Q2 [15]

DET_I0 — AL16 — LTE_DET_BB_I0 [15]

DET_Q0 — AK16 — LTE_DET_BB_Q0 [15]

APC — AA19 — APC1 [18]

AUX IN

AUXIN6 — W31

AUXIN5 — W32

AUXIN4 — V30 — HH_ADC [3]

AUXIN3 — U29 — LCD_ID [10]

AUXIN2 — V29 — AUX_IN2_NTC [1]

AUXIN1 — U28 — AUX_IN1_NTC [1]

AUXIN0 — T27 — AUX_IN0_NTC [1]

C300 1uF C301 1uF C302 1uF C303 1uF C306 1uF

REF POWER

REFP — Y32 — REFP

REFP_ABB — AJ12 — C305 100nF — C304 100nF

VIO18_PMU

R304 RES0201_NC — [3,6] AUD_SYNC_MOSI — R305 NC

VIO18_PMU

R306 NC — [3,6] PWRAP_SPI0_CSN — [3,6] — R309 RES0201_NC

VIO18_PMU

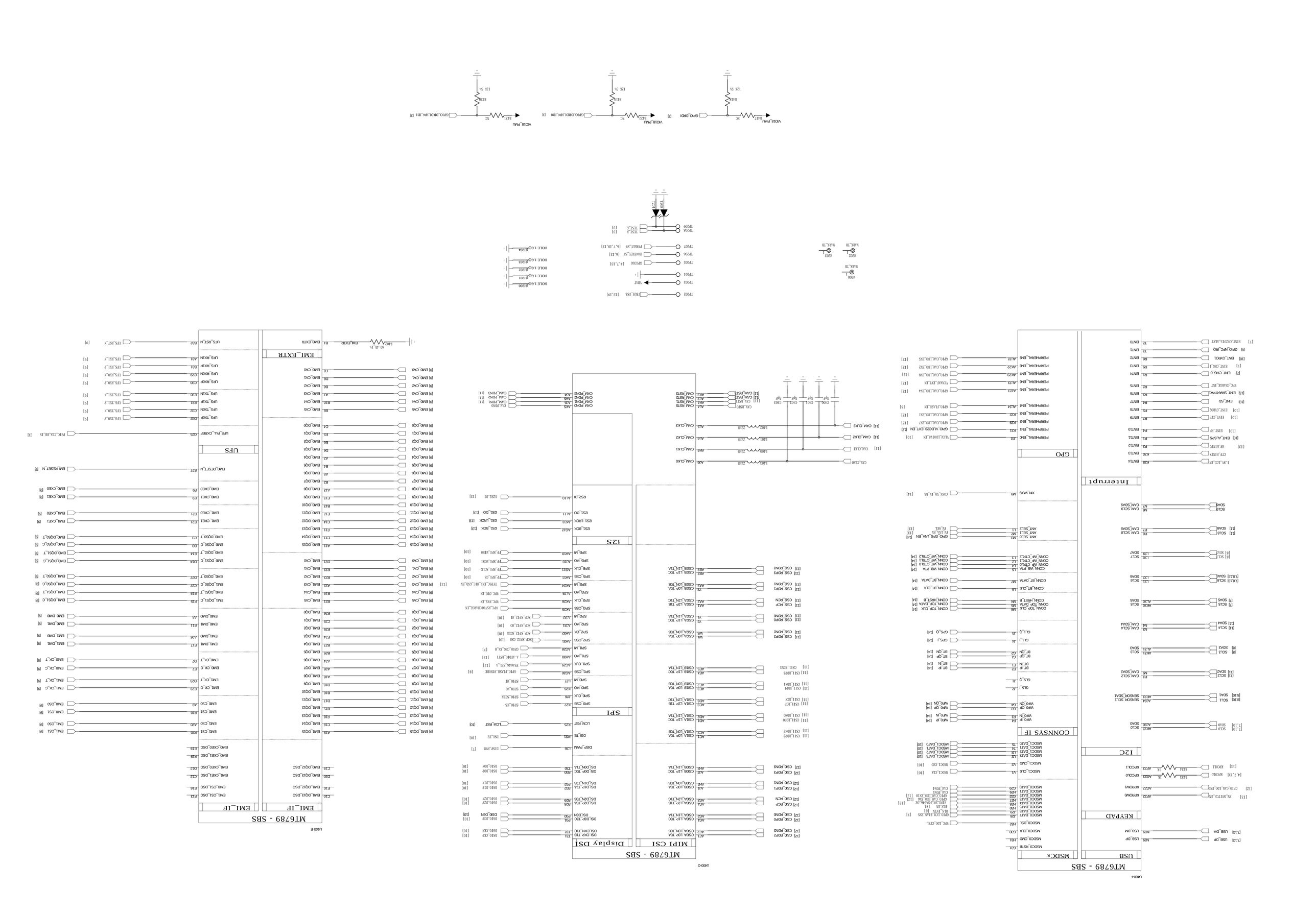
R307 RES0201_NC — AUD_DAT_MOSI0 — R310 NC

VIO18_PMU

R308 RES0201_NC — [3,6] AUD_DAT_MOSI1 — R311 NC

VIO18_PIU

R312 12K 1% — [3] HH_ADC — R313 12K 1%


MT6789 - SBS
USB
I2C
KEYPAD
Interrupt
GPIO
CONNSYS IF
MSDCs
EMI_IF
UFS
EMI_EXTR
MIPI CSI
Display DSI
SPI
I2S
1.8V_LCD_DX
CTP_RESTB
ENT_ALSPS
ENT_PF
HP_EINT0
ENT_CHG_EN
ENT_GYRO1
GPIO_NFC_REQ
ENT_CID2015_ALRT
USB_DP
USB_DM
SCL0
SDA0
SCL1
SDA1
SCL2
SDA2
SCL3
SDA3
SCL4
SDA4
SCL5
SDA5
SCL6
SDA6
SCL7
SDA7
SCL8
SDA8
CAM_SCL9
CAM_SDA9
SENSOR_SCL1
SENSOR_SDA1
PEFRPHEAL_EN0
PEFRPHEAL_EN1
PEFRPHEAL_EN2
PEFRPHEAL_EN3
PEFRPHEAL_EN4
PEFRPHEAL_EN5
PEFRPHEAL_EN6
PEFRPHEAL_EN7
PEFRPHEAL_EN8
PEFRPHEAL_EN9
GPIO_VLDO28_EXT_EN
GPIO_PL_FLASH_EN
VLDO_PMU
GPIO_DPBDI
VSDIO_PMU
GPIO_DBDI_HW_ID0
VSDIO_PMU
GPIO_DBDI_HW_ID1
VSIM1_PMU
VSIM2_PMU
VCAMAF_EXT
VCAMD_EXT
VCAMA_EXT
GPIO_CAM_LDO_EN0
GPIO_CAM_LDO_EN1
GPIO_CAM_LDO_EN2
GPIO_CAM_LDO_EN3
GPIO_CAM_LDO_EN4
GPIO_CAM_LDO_EN5
GPIO_CAM_LDO_EN6
GPIO_CAM_LDO_EN7
GPIO_CAM_LDO_EN8
GPIO_CAM_LDO_EN9
VLCM_LDOVIB_EN
XIN_MSG
COMX_SDA_DX_EN
ANT_SEL0
ANT_SEL1
ANT_SEL2
ANT_SEL3
GPIO_GPS_LNA_EN
PM_EXT_EN
PM_SRST
CONN_BT_CLK
CONN_BT_DATA
CONN_WF_CTRL0
CONN_WF_CTRL1
CONN_WF_CTRL2
CONN_WB_PTA
CONN_WB_HRST_B
CONN_TOP_CLK
CONN_TOP_DATA
CONN_HRST_B
GPS_Q
GPS_I
BT_QN
BT_QP
BT_IN
BT_IP
WF0_QN
WF0_QP
WF0_IN
WF0_IP
GL0_Q
GL0_I
GL1_Q
GL1_I
MSDC_CLK
MSDC_CMD
MSDC_DAT0
MSDC_DAT1
MSDC_DAT2
MSDC_DAT3
MSDC_DAT4
MSDC_DAT5
MSDC_DAT6
MSDC_DAT7
MSDC_DSL
MSDC_CLK
MSDC_CMD
MSDC_RSTB
MSDC1_CLK
MSDC1_CMD
MSDC1_DAT0
MSDC1_DAT1
MSDC1_DAT2
MSDC1_DAT3
MSDC1_INS
MSDC1_RSTB
KPROW0
KPROW1
KPCOL0
KPCOL1
PL_SELFTEST_EX
GPIO_CAM_LDO_DX0
KPCOL1
KPCOL0
1K
1K
8415
8414
8413
8412
8411
8410
8409
8408
8407
8406
8405
8404
8403
8402
8401
8400
22nH
22nH
22nH
22nH
1.8V
1.8V
1.8V

U600-A
U/MT6366_20201221

MT6366

VBUCK CTRL
R500 1R 1%
C500 22uF
E2 VSYS_SMPS
E1 GND_SMPS

VPROC11 IN VPROC11
C507 10uF 6.3V
A6 VSYS_VPROC11
B6 VSYS_VPROC11
A8 GND_VPROC11
B8 GND_VPROC11
VPROC11 A7
VPROC11 B7
L500 0.47uH【5.5A】
DVDD_PROC_L
VPROC11_FB D6
DVDD_PROC_L_PMIC_FB [1]
GND_VPROC11_FB D7
DVDD_PROC_L_PMIC_GND [1]
C508 10uF
C509 10uF
C510 NC
C511 10uF
C512 NC

VPROC12 IN VPROC12
C511 10uF 6.3V
A10 VSYS_VPROC12
B10 VSYS_VPROC12
D8 GND_VPROC12
D9 GND_VPROC12
VPROC12 B9
VPROC12 A9
L501 0.47uH【5.5A】
DVDD_PROC_B
VPROC12_FB E9
DVDD_PROC_B_PMIC_FB [1]
GND_VPROC12_FB D10
DVDD_PROC_B_PMIC_GND [1]
C517 10uF
C518 10uF
C519 10uF
C520 10uF
C521 10uF
C522 10uF
C523 NC
C524 NC
C525 NC
C526 NC
C527 NC
C528 NC

VCORE IN VCORE
C529 10uF 6.3V
A15 VSYS_VCORE
B15 VSYS_VCORE
B13 GND_VCORE
A13 GND_VCORE
VCORE A14
VCORE B14
L502 0.47uH【5.5A】
DVDD_CORE
VCORE_FB C16
DVDD_CORE_PMIC_FB [1]
GND_VCORE_FB B16
DVDD_CORE_PMIC_GND [1]
C533 10uF
C534 10uF
C535 10uF
C536 10uF
C537 NC

VMODEM IN VMODEM
F14 VSYS_VMODEM
C538 4.7UF
G15 GND_VMODEM
G16 GND_VMODEM
VMODEM F15
VMODEM F16
L503 1uH【3.8A】
DVDD_MODEM
VMODEM_FB D15
DVDD_MODEM_PMIC_FB [1]
GND_VMODEM_FB E14
DVDD_MODEM_PMIC_GND [1]
C540 10uF
C541 10uF
C542 10uF
C543 10uF
C544 NC

VPA IN VPA
C555 10uF 6.3V
A5 VSYS_VPA
B4 GND_VPA
VPA A4
L504 1.0uH【4.2A】
VPA_PMU
VPA_FB D5
C556 2.2UF

VS1 IN VS1
C563 4.7UF
B1 VSYS_VS1
C1 VSYS_VS1
A3 GND_VS1
B3 GND_VS1
VS1 A2
VS1 B2
L505 1.0uH【4.2A】
VS1_PMU
VS1_FB E7
VS1_PMU [5,9,12]

VS2 IN VS2
C564 4.7UF
K15 VSYS_VS2
K16 VSYS_VS2
L14 GND_VS2
VS2 L15
VS2 L16
L506 1.0uH【4.2A】
VS2_PMU
VS2_FB D16
VS2_PMU [5,12]

VGPU IN VGPU
C571 10uF 6.3V
A11 VSYS_VGPU
B11 VSYS_VGPU
D12 GND_VGPU
D13 GND_VGPU
VGPU B12
VGPU A12
L507 0.47uH【5.5A】
DVDD_GPU
VGPU_FB D14
DVDD_GPU_PMIC_FB [1]
GND_VGPU_FB C15
DVDD_GPU_PMIC_GND [1]
C566 10uF
C567 NC
C568 10uF
C569 10uF
C570 NC

VDRAM1 VDRAM1
C588 4.7UF
J16 VSYS_VDRAM1
H15 GND_VDRAM1
VDRAM1 J15
L508 1uH【4.2A】
EMI_VDD2
VDRAM1_FB D11
EMI_VDD2_FB [9]
GND_VDRAM1_FB E12
EMI_VDD2_GND [9]
C589 4.7UF
C590 10uF
C591 10uF
C592 10uF
C593 10uF
C594 10uF
C595 10uF

U600-B
U/MT6366_20201221

MT6366

LDO IN
VSYS
P7 VSYS_LDO1
P9 VSYS_LDO2
N10 VSYS_LDO3
C514 2.2UF
C515 NC
C516 NC
VS1_PMU
E4 VS1_LDO1
C530 2.2UF
C531 22UF
C532 4.7UF
EMI_VDD2
R15 VS2_LDO1
C538 2.2UF
VS2_PMU
N14 VS2_LDO2
P13 VS2_LDO3
C554 22UF
M14 VS2_LDO4

LDO
VFE28 R7
VXO22 P6
VCN28 R6
VAUX18 M6
VAUD28 R5
VBIF28 M9
ALDO
C501 1uF
C502 2.2UF
C503 1uF
C504 1uF
C505 NC
C506 NC
VFE28_PMU
VXO22_PMU
VCN28_PMU
VAUX18_PMU
VAUD28_PMU
VBIF28_PMU

VCN33 M10
VIO28 N9
VMC P9
VMCH R10
VEMC R11
VSIM1 N7
VSIM2 P10
VIBR P11
VUSB N8
DLDO
C545 1uF
C546 1uF
C547 1uF
C548 1uF
C549 1uF
C550 1uF
C551 NC
C552 NC
C553 NC
VCN33_PMU
VIO28_PMU
VMC_PMU
VMCH_PMU
VEMC_PMU
VSIM1_PMU
VSIM2_PMU
VIBR_PMU
VUSB_PMU

VRF18 F5
VEFUSE E3
VCN18 F6
VM18 E6
VIO18 F3
SLDO1
C557 1uF
C558 4.7UF
C559 4.7UF
C561 NC
C562 NC
VRF18_PMU
VEFUSE_PMU
VCN18_PMU
EMI_VDD1
VIO18_PMU
VIO18_PMU
VIO18_PMU_AP
S502
S503
S504
S505
VIO18_PMU_AVDD
S506
S507
S508
S509

VRF12_S P16
VRF12 N15
VA12 N16
VSRAM_PROC11 P12
VSRAM_OTHERS P14
VSRAM_GPU R14
VSRAM_CORE N11
VSRAM_PROC12 R13
VDRAM2 P15
VMDDR M15
VRF12_S [15]
VRF12_PMU
VA12_PMU
DVDD_SRAM_PROC_L
DVDD_SRAM_CORE
DVDD_SRAM_GPU
DVDD_SRAM_MODEM
DVDD_SRAM_PROC_B
EMI_VDDQ
AVDD075_PMU

D_GND F7
D_GND F8
D_GND F9
D_GND G7
D_GND G8
D_GND G9
D_GND H7
D_GND H8
D_GND H9

VREF
C565 100nF
S510 0R/NC 4HTL
VREF M12
GND_VREF N13

DIG PowerSLDO2
VIO18_PMU L9
DVDD18_IO
DVDD18_DIG J8
DVDD18_DIG
DVSS18_IO L8
C572 1uF
C573 100nF
C574 1uF
S511 0R/NC 4HTL

C575 2.2UF
C576 2.2UF
C577 2.2UF
C578 2.2UF
C579 4.7UF
C580 2.2UF
C581 NC
C582 10uF
C583 10uF
C584 NC
C585 NC
C586 NC
C587 4.7UF

U600-C

MT6366

Control I/F

[3,7]SYSRSTB → D4 RESETB
[3]WATCHDOG → F12 WDTRSTB_IN
PWRKEY D2 — D600 2 — 1 → PWRKEY_SI [4,7,10,13]
HOMEKEY G13 — R600 1K — HOMEKEY_SI [4,13]
SD_CARD_DET_N J13 → SD_CARD_DET_N_PIU [10]

PMIC SPI TEST

[3]PWRAP_SPI0_CSN → F13 SPI_CSN
[3]PWRAP_SPI0_CK → F11 SPI_CLK
[3]PWRAP_SPI0_MO → G11 SPI_MOSI
[3]PWRAP_SPI0_MI → G10 SPI_MISO
FSOURCE I6
PMU_TESTMODE E8

PMIC CFG EXT PMIC EN

M13 UVLO_VTH
A1 NC
A16 NC
R1 NC
R16 NC
R601 200K
EXT_PMIC_EN1 D3 → EXT_PMIC_EN1 [9]
EXT_PMIC_EN2 E5

U/MT6366_20201221

U600-G

MT6366

AUXADC

AVDD18_AUXADC M3 — L600 0 — VAUX18_PMU
AVSS18_AUXADC M4
C600 1uF
C601 100nF
AUXADC_VIN M2
R602 100K/1%
R603 0
XTAL1 N1 → XTAL1 [6]
XTAL2 P1 → XTAL2 [6]
AVSS22_XOBUF P2
AVSS22_XO P2
AVSS22_XO_ISO N2

DCXO

[6] XTAL1 — OZ26000004 RT1 RT2 2 / XT1 XT2 3 — XTAL2 [6]
X600 OZ26000004

U/MT6366_20201221

U600-D

MT6366

AUDIO IF

[3]AUD_CLK_MISO → H10 AUD_CLK_MISO
[3]AUD_DAT_MISO0 → J11 AUD_DAT_MISO0
[3]AUD_DAT_MISO1 → H11 AUD_DAT_MISO1
[3]AUD_SYNC_MISO → J10 AUD_SYNC_MISO
[3]AUD_CLK_MOSI → L11 AUD_CLK_MOSI
[3]AUD_DAT_MOSI0 → J9 AUD_DAT_MOSI0
[3]AUD_DAT_MOSI1 → L10 AUD_DAT_MOSI1
[3]AUD_SYNC_MOSI → K10 AUD_SYNC_MOSI

AUDIO INPUT

[13]AU_VIN0_P → K1 AU_VIN0_P
[13]AU_VIN0_N → L1 AU_VIN0_N
[13] AU_VIN1_P → L4 AU_VIN1_P
[13]AU_VIN1_N → L3 AU_VIN1_N
[8]AU_VIN2_P → K4 AU_VIN2_P
[8]AU_VIN2_N → K3 AU_VIN2_N

ACCDET

[13]ACCDET → K6 ACCDET
[13]HP_EINT → J4 HP_EINT

AUDIO OUTPUT

[8,13] AU_HPL → H4 AU_HPL
[13] AU_REFN → H5 AU_REFN
[13] AU_HPR → G4 AU_HPR
C610 10nF
C611 22nF
C612 22nF
AU_LOLP → G5 AU_LOLP
AU_LOLN → G6 AU_LOLN
R604 HS5201_L44_5K_1%
R605 HS5201_L44_5K_1%
[13] AU_HSP → J6 AU_HSP
[13] AU_HSN → H6 AU_HSN

U/MT6366_20201221

CHARGE PUMP

AVDD28_AUD J3 → VAUD28_PMU
C602 1uF
AVSS28_AUD J5
[13]AVSS28_AUD
C603 1uF
C604 1uF
S601 OR/NC 4HL
AU_MICBIAS0 K5 → AU_MICBIAS0 [8,13]
AU_MICBIAS1 L5 → AU_MICBIAS1 [13]

AVDD18_AUD H2 → VIO18_PMU
C607 2.2UF
AVSS18_AUD H1
S600 NC/SC 4HL
AU_V18N F1
C608 4.7UF
FLYP G2
FLYN F2
C609 4.7UF

U600-H

MT6366

RTC

VRTC28 M8
R604 1.5K/1%
C605 100nF
C606 22UF

RTC CLKOUT

[8]RTC32K_CK — R605 0 — F10 RTC32K_1V8_0
[7] RTC32K_1V8_MT6375 — R620 NC — G12 RTC32K_1V8_1
M7 RTC32K_2V8
TP600
TP601

U/MT6366_20201221

U600-F

MT6366

CLK CTRL

[3,7] SRCLKENA0 → L7 SRCLKEN_IN0
[3,15] SRCLKENA1 → J7 SRCLKEN_IN1

Sensor Hub

[3] SCP_VREQ_VAO → H13 SCP_VREQ_VAO

DCXO CLKOUT

XO_SOC P4 — R607 — PMIC_CLK_BB [5]
XO_CEL R3 — R609 — PMIC_CLK_RF [15]
XO_WCN P3 — R611 — PMIC_CLK_WCN[14]
XO_NFC N4 — R612 — PWIC_CLK_NFC [8]
XO_EXT P5 — R613 0 — PWIC_CLK_EXT [9]
CAP 0201 NC C613
CAP 0201 NC C614

U/MT6366_20201221

U600-E

MT6366

Charger IC&Gauge

VBUS
R614 330K 1%
R617 39K 1%
VSYS → VSYSSNS M11
C615 1uF
[5] VBUF28_PMU
[7] BATON_MT6366 — R621 24K 1% — BATON L12
VCDT K12
VBUS — R616 4.7K — CHRLDO K13
C617 1uF
R622 5K
CS_P N6 → CS_P [7]
CS_N M5 → CS_N [7]
BATADC L13 — R615 0 — VBATS [7]
C616 1uF

U/MT6366_20201221

U700-B
U / MT6375P/AXB-H

MT6375-2 CHG

CHG | PP+VSYS | LDO | Gauge

VBUS — 2.2UF 50V — C704 — C705 NC — CHG_VIN ×5 (A1–A5)
CHG_PGND [7] — S703 — CHG_PGND ×4 (D1–D4)
VBUS — PD_VBUS (B7)
VSYS — C729 4.7UF — PD_VCONN (B9)
WD0 (C6)
SBU1 (C7)
SBU2 (B6)
[13] USB_TYPEC_CC1 — PD_CC1 (B10)
[13] USB_TYPEC_CC2 — PD_CC2 (B8)
C718 330pF — C719 330pF — CHG_ILIM (E3) — R701 0
VAUX18 (J4)
VAUX18 (J5)
[7] VTREF_TH — R733 NC — VTREF18 (J6) — C726 1uF — C727 NC

CHG_VMID ×4 (B1–B4) — CHGVMID — C706 4.7uF/25V — CHG_PGND [7]
VBAT ×7 (H1–H4, J1, J2, K1) — VBAT
VBATS (J3) — VBATS [6,7] — C713 10uF 6.3V
CHG_BOOT (E5) — C714 100nF/25V — L700 VPS2520101C1R0MT — VSYS
CHG_VLX ×4 (C1–C4)
VSYS ×7 (E1–E4, G1–G3) — C715 22UF — C716 22UF
CHG_VDDP (D5) — C717 2.2UF
VREF_TS (A9) — C728 1nF — R716 5.9K 1%
TS (A8) — C722 — AUX_TS_NTC [13] — R711 NTC/NC
BATADC_P (K4) — R713 0 — C742 NC — R714 NC — VBATS [6,7]
BATADC_N (K5) — R710 0 — R734 NC — VBAT- [7]
[6] BATON_MT6366 — R709 0
BATON (H6) — R708 NC — BATON [7] — R735 0
CS_P (K7) — R705 NC — CS_P [6,7]
CS_N (K6) — R706 NC — CS_N [6,7]
R702 0 — R736 0

MT6375

CTRL INPUT | CTRL OUTPUT

[4,6,10,13] PWRKEY_SW — R737 0 — CHG_QONB (E2)
[3,6] WATCHDOG — R715 0 — MRSTB (H10)
TP702 1 — TP_0.5 — [4] GPIO_CHG_EN_0 — CHG_ENB (E4)
[3,6] SYSRSTB — R738 0 — RESETB (J9)
[3,6] SRCLKENA0 — SRCLKEN_0 (J10)
[4,13] KPCOL0 — R739 0 — FDL (C9)
[4] SCL5 — R720 0 — SCL (H9)
[4] SDA5 — R721 0 — SDA (H8)
[6] RTC32K_1V8_MT6375 — 32K_IN (D10)
[4,13] USB_DM — R722 1.1K — R740 0 — DM (A6)
[4,13] USB_DP — R724 1.1K — R725 0 — DP (A7)

IRQB (C10) — R727 NC — VIO18_PMU; R726 0 — EINT_CHG_0 [4]
CHRDETB (C10)

Internal PWR
VDDM (K9) — VDDA
VDDA (J8) — VDDA — C720 2.2UF
VDDA (K8) — C709 2.2UF
OTP_VPP (D7)

AGND
AGND ×49 (A10, C8, D6, D8, D9, E6, E7, E8, E9, E10, F3, F4, F5, F6, F7, F8, F9, G5, G6, G7, G8, G9, H5, H7, J7)
NC (K10)

U / MT6375P/AXB-H

[6,7] VBATS — S700 0R/NC 4011 — VBAT
ESD5681U06-2/TR — T700 2 — T705
ESD5F4V3-8 — T701 — T703
ESD5F4V3-8 — T702 — T704
C709 100nF — C711 22UF — C712 22UF
10 9 10 9 / 7 6 7 6 / 5 4 5 4 / 2 1 2 1 / 11 12 11 12 — T701 0K-501F006-13 — T706 0K-501F006-13
R719 0 — R702 0 — BATON [7]
R704 24K 1% — VTREF_TH [7]
NTC [7] — TP700
TP701
[7] VBAT- — S701 — CS_N [6,7]
T707 — R707 NC
R712 0.005ohm 1% — R703 — CS_P [6,7]

VBAT
R717 4.7R — T703
U701 — CSP CSN VCELL VSS TS SDA SCL INT_N NC — C1 C2 C3 B1 A2 A3 B3 A1 B2
[4,7,10] SDA0
[4,7,10] SCL0
[4] EINT_CHG_0
R718 0 — NTC [7]
[4]EINT_CHG2015_ALRT — V1018_PMU — R723 4.7K
C724 1uF — C725 1uF
CH2217B

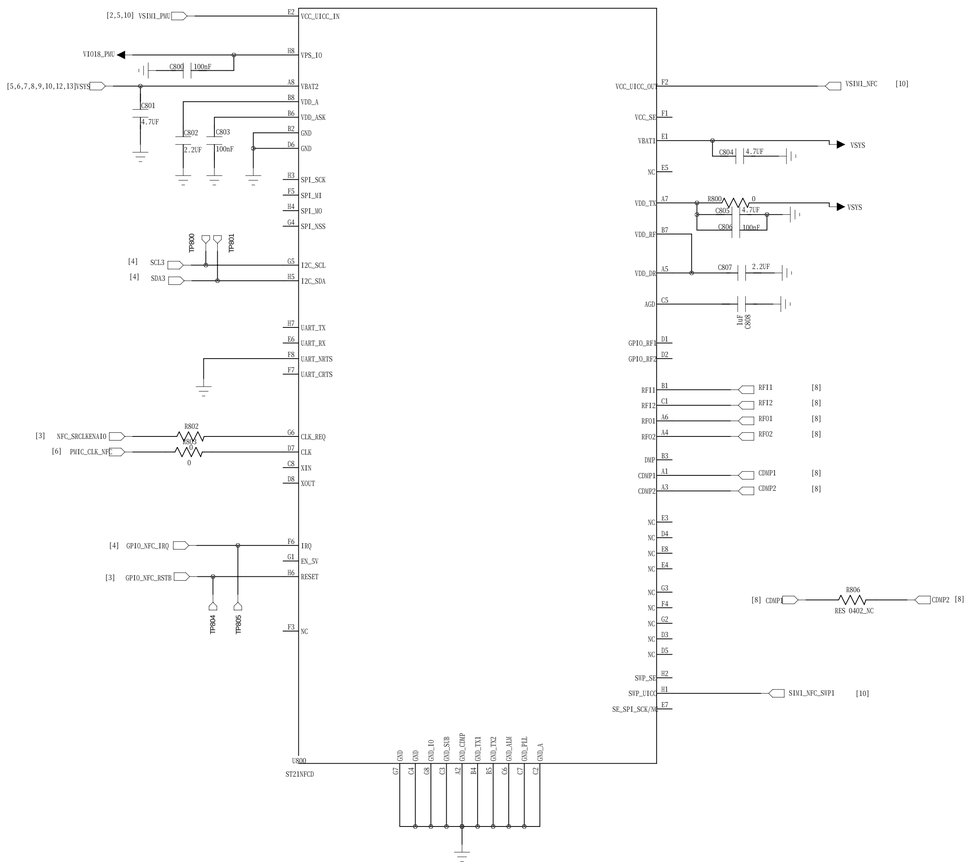
VBUS — C707 4.7uF/25V — C708 4.7uF/25V
U703 — VBUS ×4 (A2–A5) — OVPGATE VAC (A6, B1) — BST2 (B6) — CP32 CP32 (C5, C6) — CP12 CP12 (E5, E6) — DP DM (B3, B4) — SDA (C3) — SCL (C4) — BAT (E4)
C755 100NF — C701 22UF — C702 22UF — C700 22UF
R766 100K — V1018_PMU
[4,8,13] SDA6
[4,8,13] SCL6
[4] EINT_CHG_1
SC8547
PMID ×2 (B2, B5) — C756 22UF
BST1 (B1) — C753 100NF — CP11 CP11 (C1, C2) — C721 22UF — C722 22UF — C723 22UF — CP21 CP21 (E1, E2)
VOUT ×4 (D1–D4) — VBAT
C709 22UF
BATP BATN/SNS (E3)
REGN SNS (F4) — C757 4.7UF
PGND ×5 (G2–G6)

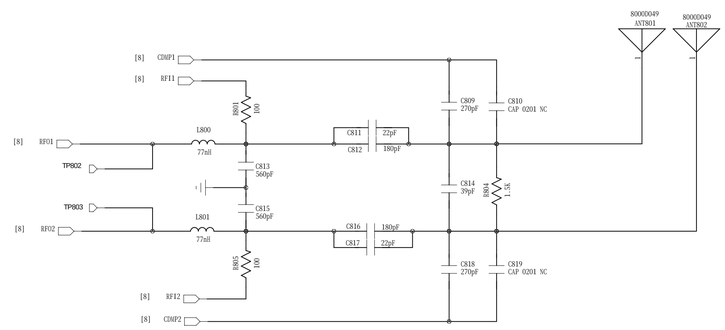
U700-A
MT6375
CTRL INPUT | CTRL OUTPUT

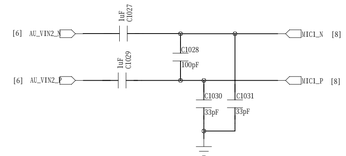
Internal PWR
AGND

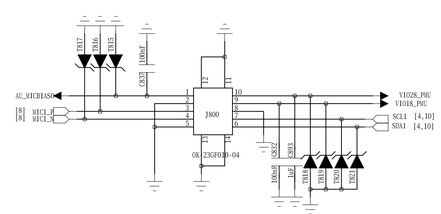
U710 TPS61322SIYFFR
L703 4.7uH_0.9mm — VSYS — C731 4.7UF — C732 4.7UF — C733 2.2UF
C1 VIN — B1 ENP — A1 ENN — B2 SCL — C2 SDA — B3 PGND — C3 PGND — D2 AGDN — SW — D1 — E3 OUTP — F2 REG — F1 REG — A2 OUTN — C3 CFLY1 — A3 CFLY2
[3] GPIO_LCM_BIAS_ENP — AVDD+ [10]
[4] GPIO_LCM_BIAS_ENN — AVDD- [10]
[4,7,10] SCL0
[4,7,10] SDA0
R725 NC — R726 NC
C734 — C735 1UF — R757 100K — R758 100K

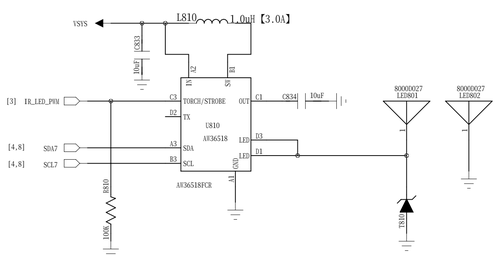
L704 10uH_2520 — VSYS — C740 10uF — [4] DISP_PWR
U715 AW9962E AW9962EDNR — VIN SW CTRL NC GND FB — R731 100K — R732 3.9R 1% — C741 NC
R729 0 — LEDA [10] — C736 1UF 50V — C737 1UF/50V — C738 NC — C739 NC
R730 0 — LEDK [10]
D700 PSRD1D40V1H

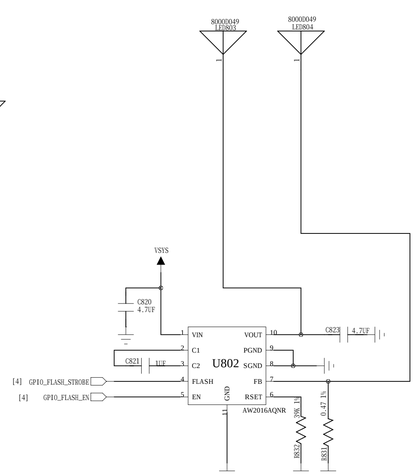

[2,5,10] VSTEL_PMU
VIO18_PMU
[5,6,7,8,9,10,12,13]VSYS
C800 100nF
C801 4.7UF
C802 2.2UF
C803 100nF
TP800
TP801
[4] SCL3
[4] SDA3
[3] NFC_SRCLKENA10
[6] PMIC_CLK_NFC
R802 10K 0
[4] GPIO_NFC_IRQ
[3] GPIO_NFC_RSTB
TP804
TP805
U800
ST21NFCD
VCC_UICC_IN
VPS_IO
VBAT2
VDD_A
VDD_ASK
GND
GND
SPI_SCK
SPI_MI
SPI_MO
SPI_NSS
I2C_SCL
I2C_SDA
UART_TX
UART_RX
UART_NRTS
UART_CRTS
CLK_REQ
CLK
XIN
XOUT
IRQ
EN_5V
RESET
NC
VCC_UICC_OUT
VCC_SIM
VBAT1
NC
VDD_TX
VDD_RF
VDD_DIG
AGD
GPIO_RF1
GPIO_RF2
RFI1
RFI2
RFO1
RFO2
DNP
CDMP1
CDMP2
NC
SWP_SIM
SWP_UICC
SE_SPI_SCK/MOSI
VSIM1_NFC [10]
VSYS
R800 0
C805 4.7UF
C806 100nF
C807 2.2UF
C808 1uF
RFI1 [8]
RFI2 [8]
RFO1 [8]
RFO2 [8]
CDMP1 [8]
CDMP2 [8]
[8] CDMP1
R806 RES 0402_NC
CDMP2 [8]
SIM1_NFC_SWP1 [10]
GND C7
GND C4
GND_10 C8
GND_SIM C5
GND_CDMP E7
GND_TX1 B4
GND_TX2 B5
GND_ALM C6
GND_PFL C7
GND_A C2

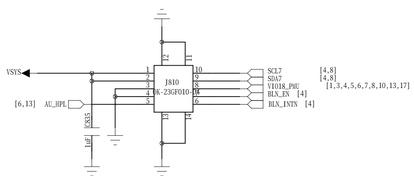

80000049 ANT801
80000049 ANT802
[8] CDMP1
[8] RFI1
R803 100
L800 77nH
C811 22pF
C812 180pF
C809 270pF
C810 CAP 0201 NC
[8] RFO1
TP802
C813 560pF
C814 39pF
R804 1.5K
TP803
[8] RFO2
L801 77nH
C815 560pF
C816 180pF
C817 22pF
R805 100
C818 270pF
C819 CAP 0201 NC
[8] RFI2
[8] CDMP2

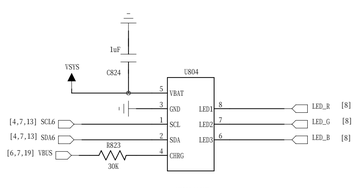

[6] AU_VIN2_N
[6] AU_VIN2_P
1uF C1027
1uF C1029
C1028 100pF
C1030 33pF
C1031 33pF
MIC1_N [8]
MIC1_P [8]

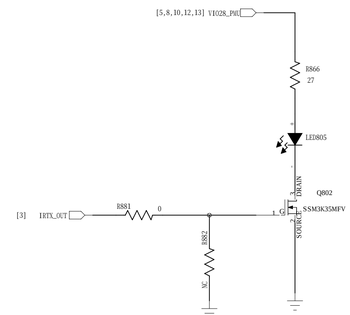

ESD17
ESD16
ESD15
C833 100nF
AU_MICBIAS0
[8] MIC1_P
[8] MIC1_N
J800
OK-Z3GF030-04
VIO28_PMU
VIO18_PMU
SCL1 [4,10]
SDA1 [4,10]
C832
C831 1uF
ESD18
ESD19
ESD20
TVS1

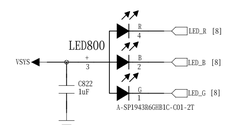

VSYS
L810 1.0uH【3.0A】
C833 10uF
[3] IR_LED_PWM
[4,8] SDA7
[4,8] SCL7
TORCH/STROBE
TX
SDA
SCL
OUT
LED
GND
AW36518FCR
C834 10uF
R810 100K
80000027 LED801
80000027 LED802
TVS2


80000049 LED803
80000049 LED804
VSYS
C820 4.7UF
C821 1UF
[4] GPIO_FLASH_STROBE
[4] GPIO_FLASH_EN
U802
VIN
C1
C2
FLASH
EN
VOUT
PGND
SGND
FB
RSET
GND
AW2016AQNR
C823 4.7UF
R832 20K 1%
R833 0.47 1%


VSYS
[6,13] AU_HPL
C835 1uF
J810
OK-Z3GF010-04
SCL7
SDA7
VIO18_PMU
BLN_EN [4]
BLN_INTN [4]
[4,8]
[4,8]
[1,3,4,5,6,7,8,10,13,17]


1uF
C824
VSYS
U804
VBAT
GND
SCL
SDA
CHRG
LED4
LED5
LED6
[4,7,13] SCL6
[4,7,13] SDA6
[6,7,19] VBUS
R823 30K
LED_R [8]
LED_G [8]
LED_B [8]
AW2016AQNR


[5,8,10,12,13] VIO28_PMU
R866 27
LED805
Q802
SSM3K35MFV
[3] IRTX_OUT
R881 0
R882 NC


LED800
VSYS
C822 1uF
LED_R [8]
LED_B [8]
LED_G [8]
A-SP1943B6GIB1C-CO1-2T

U900

LP-DDR4X

SKYUW181ZZCDA1SKPR-UT

UFS

Power

VCCM M17 N17 P17
VCCQ2M J15 J16 J17 K15
VCCQM R13 R14 T15 T16
VDD1 A4 A9 A15 A16 B15 AC15 AD4 AD9 AD15 AD16
VDD2 A5 A8 B9 B13 B14 G7 G8 G9 L7 L8 L9 P7 P8 P9 V7 V8 V9 AC9 AC13 AC14 AD5 AD6 K2 R2
VDDQ A6 A7 A13 A14 B5 H5 H6 J4 J5 J6 T4 T5 T6 U5 U6 AC5 AD6 AD7 AD13 AD14

VEMC_PMU
VUFS18_PMU
EMI_VDD1
EMI_VDD2
EMI_VDDQ

C900 100nF
C901 100nF
C902 4.7UF
C903 100nF
C904 100nF
C905 2.2UF
C906 4.7UF
C907 1uF
C908 2.2UF
C909 1uF
C910 2.2UF
C911 1uF
C912 1uF
C913 1uF
C914 1uF
C915 1uF
C916 1uF
C917 1uF
C918 1uF
C919 4.7UF
C920 4.7UF
C921 1uF
C922 1uF
C923 1uF
C924 1uF
C925 1uF
C926 1uF
C927 4.7UF
C928 4.7UF
C929 1uF
C930 1uF
C931 1uF
C932 2.2UF

EMI_VDD2_FB [5]
EMI_VDD2_GND [5]
SW06 0R/1%/0201
SW04 0R/1%/0201

REF_CLK P12 → PMIC_CLK_EX [5]
DIN0_C M15 → UFS_TX0_N [4]
DIN0_T M16 → UFS_TX0_P [4]
DIN1_T L14 → UFS_TX1_P [4]
DIN1_C L13 → UFS_TX1_N [4]
DOUT0_C P15 → UFS_RX0_N [4]
DOUT0_T P16 → UFS_RX0_P [4]
DOUT1_T N14 → UFS_RX1_P [4]
DOUT1_C N13 → UFS_RX1_N [4]
RST_N M12 → UFS_RST_N [4]
VDDI L17
VDDQ T17
VDDQ2 K17
Z0_A B16
Z1_A C16
Z2_A D16

R900 240 1%
R901 240 1%
R902 DNP

RFU M7 N7 M9 N9
NC M3 N3 AB16 AC16
DNU A1 A2 A17 A18 B1 B18 AC1 AC18 AD1 AD2 AD17 AD18
VSSM K13 K14 K16 L12 L15 L16 M8 M13 M14 N8 N12 N15 N16 P13 P14 R15 R16 R17

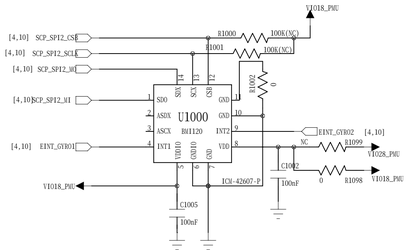
CA0_A CA1_A CA2_A CA3_A CA4_A CA5_A
CS0_A CS1_A CS2_A
CKE0_A CKE1_A CKE2_A
CLK_T_A CLK_C_A
DQ0_A DQ1_A DQ2_A DQ3_A DQ4_A DQ5_A DQ6_A DQ7_A
DM0_A
DQS0_T_A DQS0_C_A
DQ8_A DQ9_A DQ10_A DQ11_A DQ12_A DQ13_A DQ14_A DQ15_A
DM1_A
DQS1_T_A DQS1_C_A

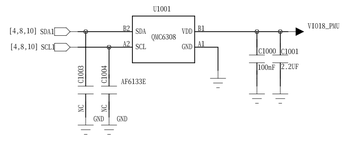
CA0_B CA1_B CA2_B CA3_B CA4_B CA5_B
CS0_B CS1_B CS2_B
CKE0_B CKE1_B CKE2_B
CLK_T_B CLK_C_B
DQ0_B DQ1_B DQ2_B DQ3_B DQ4_B DQ5_B DQ6_B DQ7_B
DM0_B
DQS0_T_B DQS0_C_B
DQ8_B DQ9_B DQ10_B DQ11_B DQ12_B DQ13_B DQ14_B DQ15_B
DM1_B
DQS1_T_B DQS1_C_B
ODT_A ODT_B RESET_N

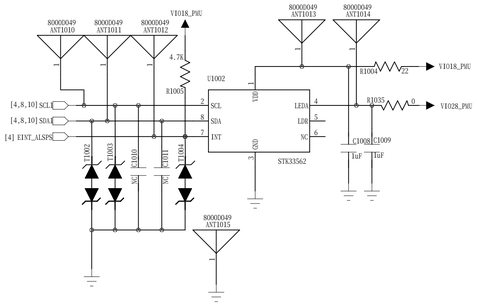
EMI_VDD2
[4]EMI_RESET_N

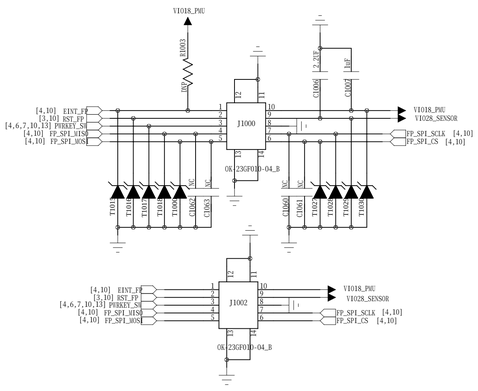
VSS: B4 B6 B8 C4 C5 C7 C14 D4 D6 D8 D14 D15 E14 F14 G4 G5 G6 G13 G15 H4 H7 H13 H15 J6 K4 K7 K8 R8 R4 R7 T6 U4 U7 U13 U15 V4 V5 V6 V13 V15 W14 Y14 AA4 AA6 AA8 AA14 AA15 AB4 AB5 AB7 AB14 AC4 AC6 AC8

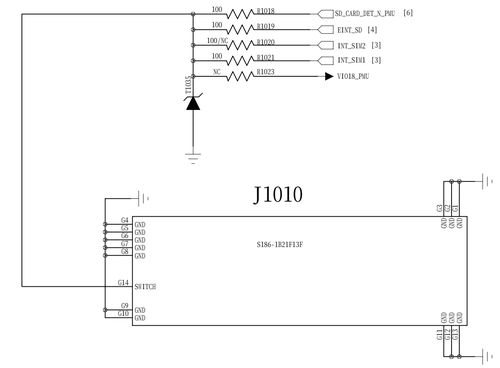
VSYS
VS1_PMU
VUFS18_PMU
U901
OCP1411WQNR
BIAS VOUT EN ADJ VIN GND
C2 B2 A2 A1 B1 C1
R903 330
[6] EXT_PMIC_EN
R904 39K 1%
C933 120pF
R905 1K 1%
C933 1uF
C934 4.7UF
C936 4.7UF

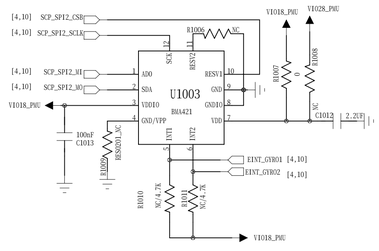

VI018_PMU
[4,10] SCP_SPI2_CS
[4,10] SCP_SPI2_SCL
[4,10] SCP_SPI2_MI
[4,10] SCP_SPI2_MO
[4,10] EINT_GYRO1
R1000 100K(NC)
R1001 100K(NC)
R1002 0
U1000
BH1120
SDO
SDIX
SCX
INT1
GND
INT2
VDD
NC
EINT_GYRO2 [4,10]
R1099
VI028_PMU
C1002
100nF
R1098 0
VI018_PMU
ICH-42667-P
C1005
100nF


U1001
[4,8,10] SDA1
[4,8,10] SCL1
SDA
SCL
B2
A2
B1
A1
VDD
GND
QMC6308
VI018_PMU
C1000 C1001
100nF 2.2UF
AF6133E
C1003
C1004
NC
GND


80000049 ANT1010
80000049 ANT1011
80000049 ANT1012
80000049 ANT1013
80000049 ANT1014
80000049 ANT1015
VI018_PMU
4.7R
R1003
U1002
STK33562
[4,8,10] SCL
[4,8,10] SDA
[4] EINT_ALSPS
SCL
SDA
INT
VDD
GND
LED1
LED2
NC
R1004 22
R1035 0
VI018_PMU
VI028_PMU
C1008 C1009
1uF 1uF
T1002
T1003
T1000
T1001

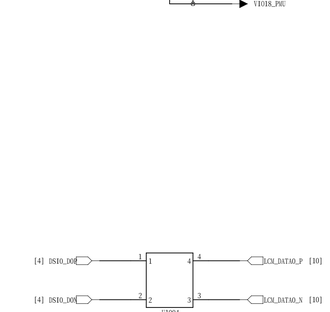

VI018_PMU
R1003
10K
J1000
OK-23GF030-04_B
[4,10] EINT_FP
[3,10] RST_FP
[4,6,7,10,13] PWRKEY_SI
[4,10] FP_SPI_MISO
[4,10] FP_SPI_MOSI
VI018_PMU
VI028_SENSOR
FP_SPI_SCLK [4,10]
FP_SPI_CS [4,10]
C1004 2.2UF
C1007 1uF
C1002 C1001
T1001 T1002 T1003 T1004 C1005 C1006
T1015 T1016 T1017 T1018

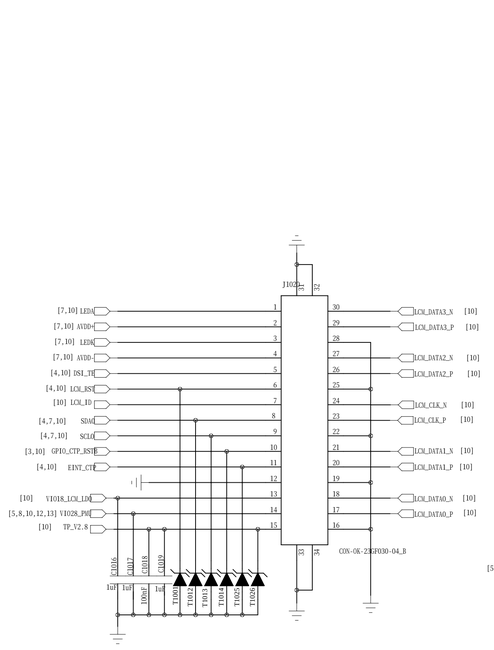

100 R1018 SD_CARD_DET_N_PIU [6]
100 R1019 EINT_SD [4]
100/NC R1020 INT_SIH2 [3]
100 R1021 INT_SIH1 [3]
NC R1023 VI018_PMU
VI018_PMU
J1010
S1B6-1B21F13F
GND
SHTTCH
G4 G5 G6 G7 G8 G14 G9 G10
G12 G13 G11

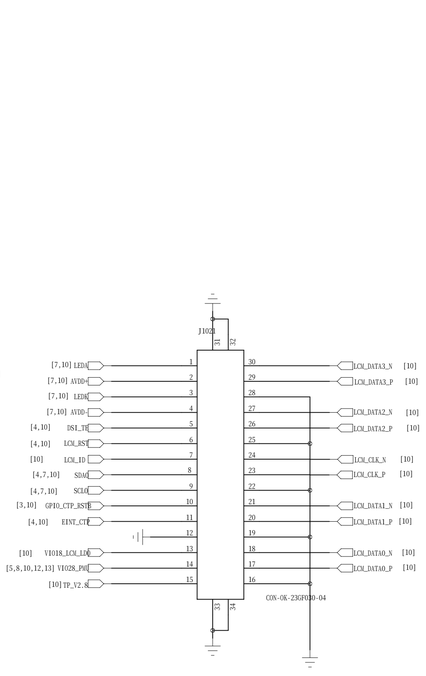

[4,10] SCP_SPI2_CS
[4,10] SCP_SPI2_SCL
[4,10] SCP_SPI2_MI
[4,10] SCP_SPI2_MO
VI018_PMU
VI028_PMU
R1006 NC
R1007
R1008
U1003
BH1421
ADO
SDA
VDDIO
GND/VPP
SCL
RESV2
RESV1
GND
GNDIO
VDD
INT1
INT2
C1012 2.2UF
100nF C1013
R1009 NC
R1010 NC/4.7K
R1011 NC/4.7K
EINT_GYRO1 [4,10]
EINT_GYRO2 [4,10]
VI018_PMU

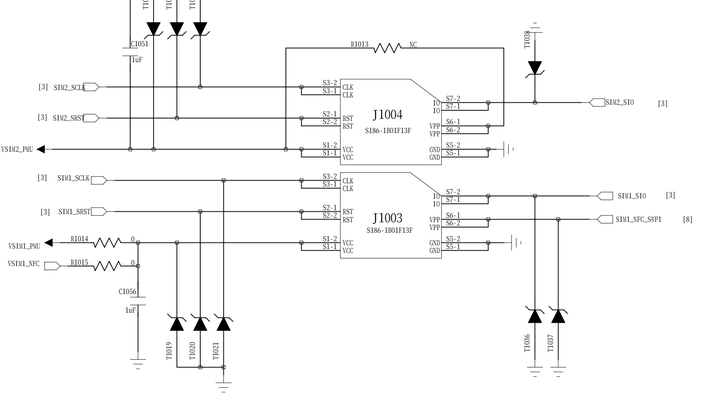
VI018_PMU
R1003
10K
J1002
OK-23GF030-04_B
[4,10] EINT_FP
[3,10] RST_FP
[4,6,7,10,13] PWRKEY_SI
[4,10] FP_SPI_MISO
[4,10] FP_SPI_MOSI
VI018_PMU
VI028_SENSOR
FP_SPI_SCLK [4,10]
FP_SPI_CS [4,10]

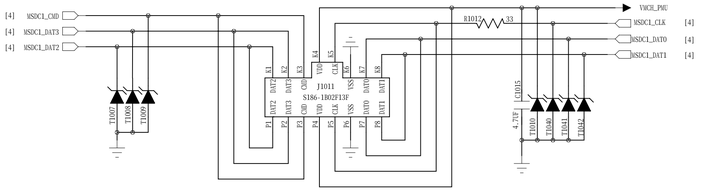
J1001
M-SHIELD

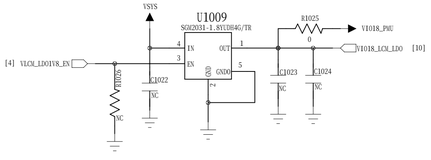

[4] DSI0_D0P
[4] DSI0_D0N
LCM_DATA0_P [10]
LCM_DATA0_N [10]
U1004
[4] DSI0_D1P
[4] DSI0_D1N
LCM_DATA1_P [10]
LCM_DATA1_N [10]
U1005
[4] DSI0_CKP
[4] DSI0_CKN
LCM_CLK_P [10]
LCM_CLK_N [10]
U1006
[4] DSI0_D2P
[4] DSI0_D2N
LCM_DATA2_P [10]
LCM_DATA2_N [10]
U1007
[4] DSI0_D3P
[4] DSI0_D3N
LCM_DATA3_P [10]
LCM_DATA3_N [10]
U1008

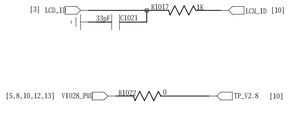

[7,10] LEDA
[7,10] AVDD+
[7,10] LEDK
[7,10] AVDD-
[4,10] DSI_TE
[4,10] LCM_RST
[10] LCM_ID
[4,7,10] SDA1
[4,7,10] SCL1
[3,10] GPIO_CTP_RSTB
[4,10] EINT_CTP
[10] VI018_LCM_LDO
[5,8,10,12,13] VI028_PMU
[10] TP_V2.8
J1022
LCM_DATA3_N [10]
LCM_DATA3_P [10]
LCM_DATA2_N [10]
LCM_DATA2_P [10]
LCM_CLK_N [10]
LCM_CLK_P [10]
LCM_DATA1_N [10]
LCM_DATA1_P [10]
LCM_DATA0_N [10]
LCM_DATA0_P [10]
C1016 C1017 C1018 C1019
T1004 T1005 T1006 T1007 T1008 T1009 T1010 T1011
CON-0K-23GF030-04_B

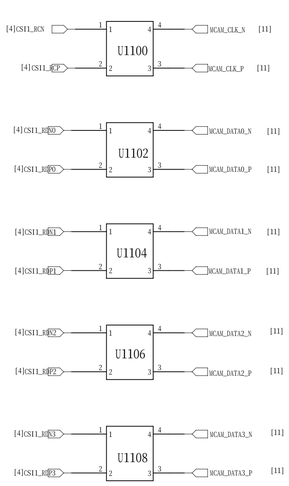

[7,10] LEDA
[7,10] AVDD+
[7,10] LEDK
[7,10] AVDD-
[4,10] DSI_TE
[4,10] LCM_RST
[10] LCM_ID
[4,7,10] SDA1
[4,7,10] SCL1
[3,10] GPIO_CTP_RSTB
[4,10] EINT_CTP
[10] VI018_LCM_LDO
[5,8,10,12,13] VI028_PMU
[10] TP_V2.8
J1023
LCM_DATA3_N [10]
LCM_DATA3_P [10]
LCM_DATA2_N [10]
LCM_DATA2_P [10]
LCM_CLK_N [10]
LCM_CLK_P [10]
LCM_DATA1_N [10]
LCM_DATA1_P [10]
LCM_DATA0_N [10]
LCM_DATA0_P [10]
CON-0K-23GF030-04

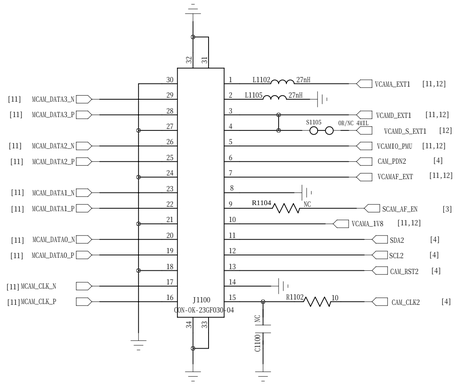

C1054 1uF
R1013 NC
T1038
[3] SIH2_SCL
[3] SIH2_SIRST
VSIH2_PMU
J1004
S1B6-1B01F13F
SIH2_SIO [3]
[3] SIH1_SCLK
[3] SIH1_SIRST
VSIH1_PMU
[8] VSIH1_NFC
R1014 0
R1015 0
C1056 1uF
J1003
S1B6-1B01F13F
SIH1_SIO [3]
SIH1_NFC_SIPI [8]
T1039 T1043 T1044
T1019 T1020 T1021
T1036 T1037

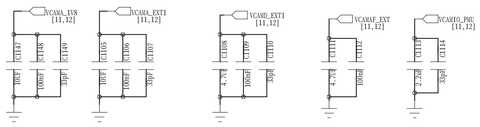

[4] VSDC1_CMD
[4] VSDC1_DAT3
[4] VSDC1_DAT2
T1007 T1008 T1009
J1011
S1B6-1B02F13F
R1012 33
VMCH_PMU
VSDC1_CLK [4]
VSDC1_DAT0 [4]
VSDC1_DAT1 [4]
C1035 4.7UF
T1010 T1040 T1041 T1042

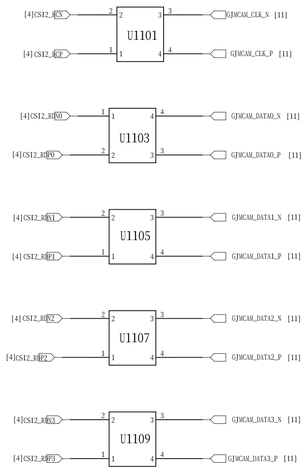

VSYS
U1009
SGM2031-1.8XUDB4G/TR
[4] VLCM_LDO1V8_EN
R1025 0
VI018_PMU
VI018_LCM_LDO [10]
R1026 NC
C1022 NC
C1023 NC
C1024 NC

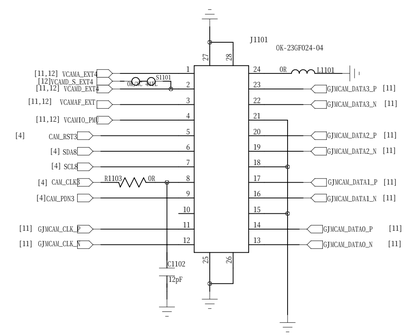

[3] LCD_ID
33pF C1021
R1017 4K
LCM_ID [10]
[5,8,10,12,13] VI028_PMU
R1022 0
TP_V2.8 [10]

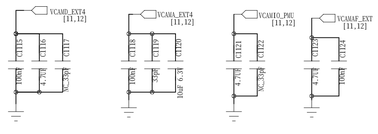

[4]CSI1_RCN
[4]CSI1_RCP
U1100
WCAM_CLK_N [11]
WCAM_CLK_P [11]
[4]CSI1_RDN0
[4]CSI1_RDP0
U1102
WCAM_DATA0_N [11]
WCAM_DATA0_P [11]
[4]CSI1_RDN1
[4]CSI1_RDP1
U1104
WCAM_DATA1_N [11]
WCAM_DATA1_P [11]
[4]CSI1_RDN2
[4]CSI1_RDP2
U1106
WCAM_DATA2_N [11]
WCAM_DATA2_P [11]
[4]CSI1_RDN3
[4]CSI1_RDP3
U1108
WCAM_DATA3_N [11]
WCAM_DATA3_P [11]

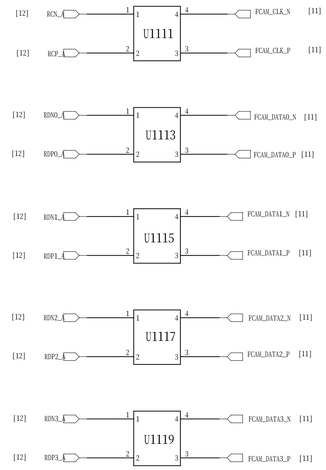

J1100
QIX-0K-23GF030-04
[11] WCAM_DATA3_N
[11] WCAM_DATA3_P
[11] WCAM_DATA2_N
[11] WCAM_DATA2_P
[11] WCAM_DATA1_N
[11] WCAM_DATA1_P
[11] WCAM_DATA0_N
[11] WCAM_DATA0_P
[11] WCAM_CLK_N
[11] WCAM_CLK_P
L1102 27nH
L1105 27nH
S1105 0R/NC 4011L
R1104 NC
R1102 10
C1100 NC
VCAMA_EXT1 [11,12]
VCAMD_EXT1 [11,12]
VCAMD_S_EXT1 [12]
VCAHTO_PWE [11,12]
CAM_PDN2 [4]
VCAMAF_EXT [11,12]
SCAM_AF_EN [3]
VCAMA_1V8 [11,12]
SDA2 [4]
SCL2 [4]
CAM_RST2 [4]
CAM_CLK2 [4]

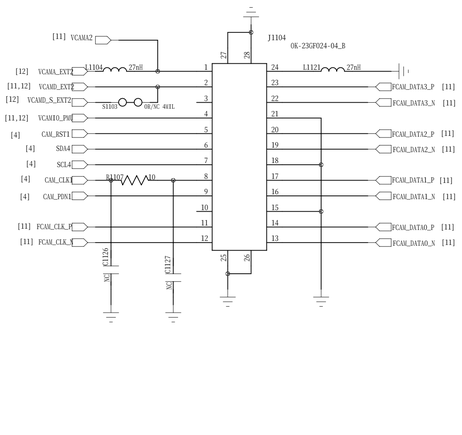

VCAMA_1V8 [11,12]
C1147 10nF
R1148 100mR
C1149 33pF
VCAMA_EXT1 [11,12]
C1105 10nF
R1106 100mR
C1107 33pF
VCAMD_EXT1 [11,12]
C1108 4.7uF
C1109 100nF
C1110 33pF
VCAMAF_EXT [11,12]
C1113 4.7uF
C1114 100nF
VCAHTO_PWE [11,12]
C1133 2.2uF
C1134 33pF

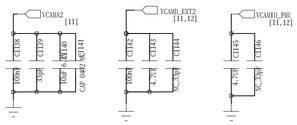

[4]CSI2_RCN
[4]CSI2_RCP
U1101
GJWCAM_CLK_N [11]
GJWCAM_CLK_P [11]
[4]CSI2_RDN0
[4]CSI2_RDP0
U1103
GJWCAM_DATA0_N [11]
GJWCAM_DATA0_P [11]
[4]CSI2_RDN1
[4]CSI2_RDP1
U1105
GJWCAM_DATA1_N [11]
GJWCAM_DATA1_P [11]
[4]CSI2_RDN2
[4]CSI2_RDP2
U1107
GJWCAM_DATA2_N [11]
GJWCAM_DATA2_P [11]
[4]CSI2_RDN3
[4]CSI2_RDP3
U1109
GJWCAM_DATA3_N [11]
GJWCAM_DATA3_P [11]

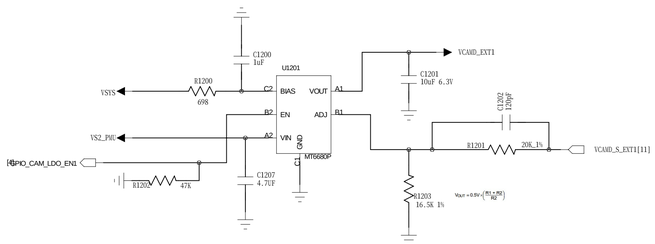

J1101
0K-23GF024-04
[11,12] VCAMA_EXT4
[12]VCAMD_S_EXT4
[11,12] VCAMD_EXT4
[11,12] VCAMAF_EXT
[11,12] VCAHTO_PWE
[4] CAM_RST3
[4] SDA3
[4] SCL3
[4] CAM_CLK3
[4]CAM_PDN3
[11] GJWCAM_CLK_P
[11] GJWCAM_CLK_N
S1101 0R/NC
R1103 0R
C1102 12pF
GJWCAM_DATA3_P [11]
GJWCAM_DATA3_N [11]
GJWCAM_DATA2_P [11]
GJWCAM_DATA2_N [11]
GJWCAM_DATA1_P [11]
GJWCAM_DATA1_N [11]
GJWCAM_DATA0_P [11]
GJWCAM_DATA0_N [11]
L1101 27nH

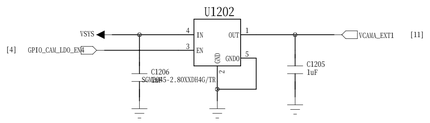

VCAMD_EXT4 [11,12]
C1115 10nF
C1116 4.7uF
C1117 NC_4.7uF
VCAMA_EXT4 [11,12]
C1118 10nF
C1119 33pF
C1120 10uF_6.3V
VCAHTO_PWE [11,12]
C1121 4.7uF
C1122 NC_4.7uF
VCAMAF_EXT [11,12]
C1123 4.7uF
C1124 10nF

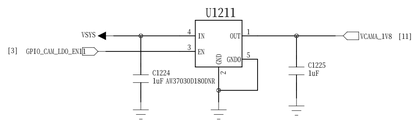

[12] RCN_
[12] RCP_
U1111
FCAM_CLK_N [11]
FCAM_CLK_P [11]
[12] RDN0_
[12] RDP0_
U1113
FCAM_DATA0_N [11]
FCAM_DATA0_P [11]
[12] RDN1_
[12] RDP1_
U1115
FCAM_DATA1_N [11]
FCAM_DATA1_P [11]
[12] RDN2_
[12] RDP2_
U1117
FCAM_DATA2_N [11]
FCAM_DATA2_P [11]
[12] RDN3_
[12] RDP3_
U1119
FCAM_DATA3_N [11]
FCAM_DATA3_P [11]

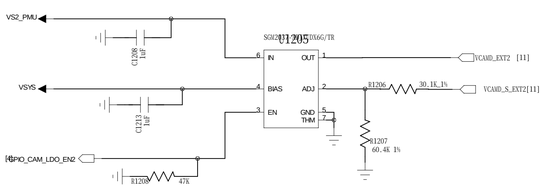

J1104
0K-23GF024-04_B
[11] VCAMA2
[12] VCAMA_EXT2
[11,12] VCAMD_EXT2
[12] VCAMD_S_EXT2
[11,12] VCAHTO_PWE
[4] CAM_RST3
[4] SDA4
[4] SCL4
[4] CAM_CLK4
[4] CAM_PDN3
[11] FCAM_CLK_P
[11] FCAM_CLK_N
L1104 27nH
L1121 27nH
S1103 0R/NC 4011L
R1107 10
C1126 NC
C1127 NC
FCAM_DATA3_P [11]
FCAM_DATA3_N [11]
FCAM_DATA2_P [11]
FCAM_DATA2_N [11]
FCAM_DATA1_P [11]
FCAM_DATA1_N [11]
FCAM_DATA0_P [11]
FCAM_DATA0_N [11]

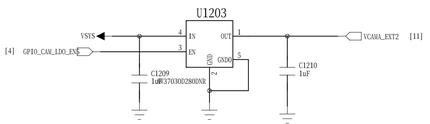

VCAMA2 [11]
C1138 10nF
C1139 4.7uF
C1140 NC_4.7uF
VCAMD_EXT2 [11,12]
C1142 10nF
C1143 4.7uF
C1144 NC_4.7uF
VCAHTO_PWE [11,12]
C1145 4.7uF
C1146 NC_4.7uF

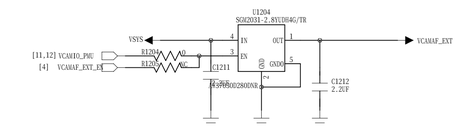

U1201
C1200
1uF
R1200
698
VSYS
BIAS
VOUT
A1
C2
B2
EN
ADJ
B1
VS2_PMU
A2
VIN
GND
C1
MT6680P
[4] GPIO_CAM_LDO_EN1
R1202
47K
C1207
4.7uF
C1201
10uF 6.3V
C1202
47pF
VCAMD_EXT1
R1201
20K_1%
VCAMD_S_EXT1[11]
R1203
16.5K 1%
Vout = 0.5V × (1 + R1 / R2)

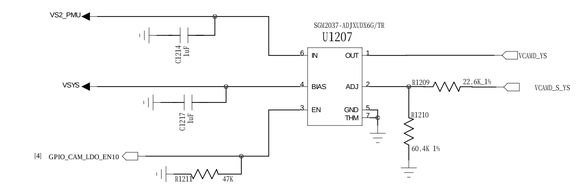

U1202
VSYS
IN
OUT
[4] GPIO_CAM_LDO_EN3
EN
GND
GNDG
C1206
SGM2033-2.8XXD4G/TR
VCAMA_EXT1 [11]
C1205
1uF

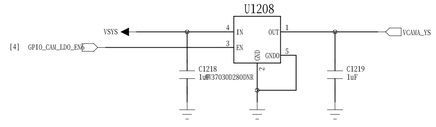

U1211
VSYS
IN
OUT
[3] GPIO_CAM_LDO_EN7
EN
GND
GNDG
C1224
1uF AS37030018ODNR
C1225
1uF
VCAMA_1V8 [11]

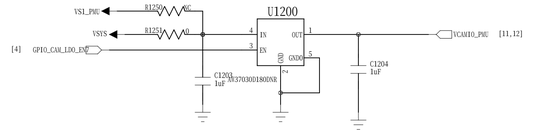

VS2_PMU
C1208
1uF
U1205
SGM2033-ADJXUD6G/TR
IN
OUT
VSYS
BIAS
ADJ
C1213
1uF
EN
GND
THM
[4] GPIO_CAM_LDO_EN2
R1208
47K
VCAMD_EXT2 [11]
R1206
30.1K_1%
VCAMD_S_EXT2[11]
R1207
60.4K 1%

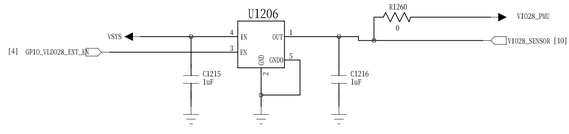

U1203
VSYS
IN
OUT
[4] GPIO_CAM_LDO_EN4
EN
GND
GNDG
C1209
1uF AS37030028ODNR
VCAMA_EXT2 [11]
C1210
1uF

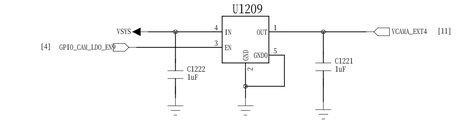

U1204
SGM2033-2.8YUD4G/TR
VSYS
IN
OUT
VCAMAF_EXT
[11,12] VCAMIO_PMU
R1204
0
[4] VCAMAF_EXT_EN
EN
R1205
NC
GND
GNDG
C1211
C1212
2.2UF
DFN0802028ODNR

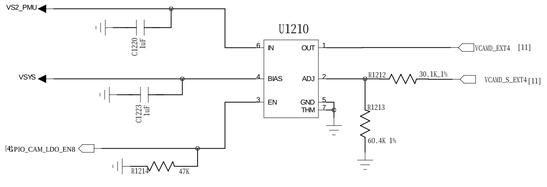

VS2_PMU
SGM2037-ADJXUD6G/TR
U1207
C1214
1uF
IN
OUT
VSYS
BIAS
ADJ
C1217
1uF
EN
GND
THM
[4] GPIO_CAM_LDO_EN10
R1211
47K
R1209
22.6K_1%
VCAMD_S_YS
R1210
60.4K 1%
VCAMD_YS

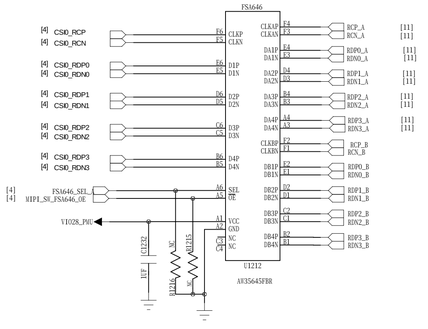

U1208
VSYS
IN
OUT
[4] GPIO_CAM_LDO_EN5
EN
GND
GNDG
C1218
1uF AS37030028ODNR
VCAMA_YS
C1219
1uF

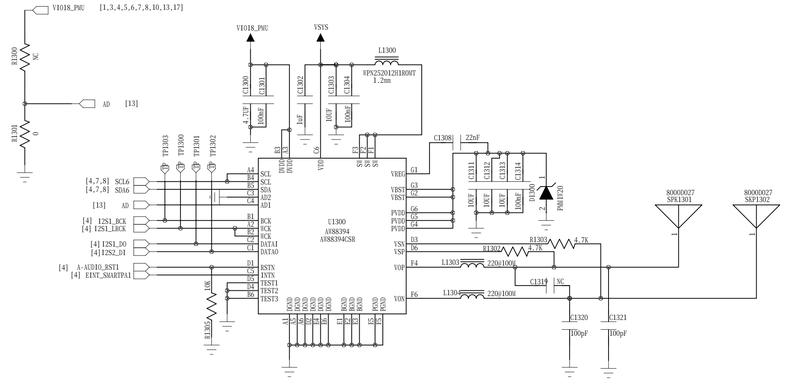

VS1_PMU
R1250
0
U1200
VSYS
R1251
0
IN
OUT
[4] GPIO_CAM_LDO_EN6
EN
GND
GNDG
C1203
1uF AS37030018ODNR
VCAMIO_PMU [11,12]
C1204
1uF

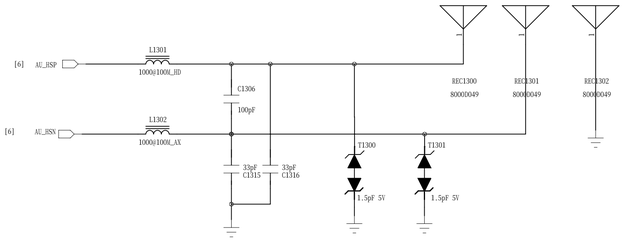

U1206
R1260
0
VSYS
IN
OUT
VI028_PMU
[4] GPIO_VLDO28_EXT_EN
EN
GND
GNDG
VI028_SENSOR [10]
C1215
1uF
C1216
1uF

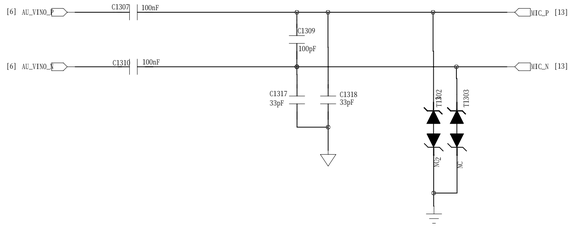

U1209
VSYS
IN
OUT
[4] GPIO_CAM_LDO_EN8
EN
GND
GNDG
C1222
1uF
VCAMA_EXT4 [11]
C1221
1uF

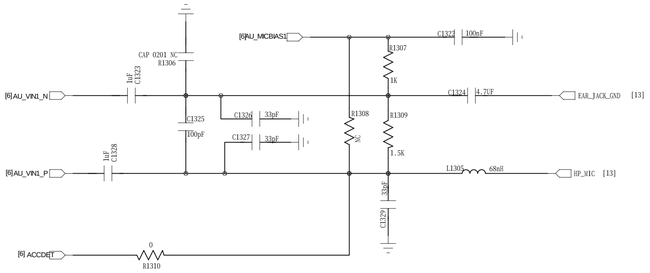

VS2_PMU
C1220
1uF
U1210
SGM2033-ADJXUD6G/TR
IN
OUT
VSYS
BIAS
ADJ
C1223
1uF
EN
GND
THM
[4] GPIO_CAM_LDO_EN8
R1214
47K
VCAMD_EXT4 [11]
R1212
30.1K_1%
VCAMD_S_EXT4[11]
R1213
60.4K 1%

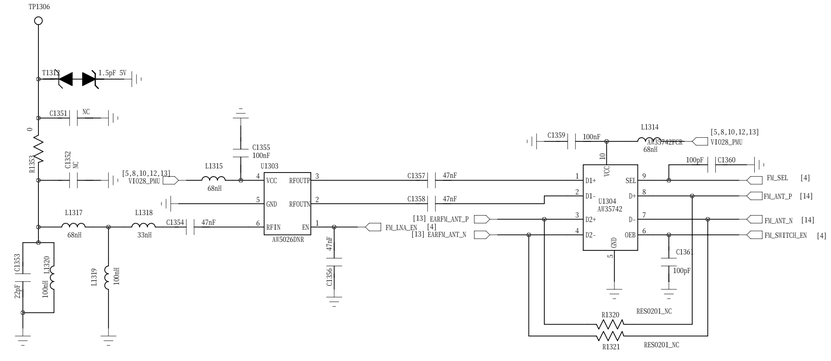

FSA646
[4] CSI0_RCP
[4] CSI0_RCN
[4] CSI0_RDP0
[4] CSI0_RDN0
[4] CSI0_RDP1
[4] CSI0_RDN1
[4] CSI0_RDP2
[4] CSI0_RDN2
[4] CSI0_RDP3
[4] CSI0_RDN3
[4] FSA646_SEL
[4] MIPI_SW_FSA646_OE
VI028_PMU
CLKP
CLKN
D1P
D1N
D2P
D2N
D3P
D3N
D4P
D4N
SEL
OE
VCC
GND
NC
C1232
NC
R1215
0
NC
U1212
AW35645FRR
RCP_A
RCN_A
R2P0_A
R2N0_A
R1P1_A
R1N1_A
R2P2_A
R2N2_A
R3P3_A
R3N3_A
RCP_B
RCN_B
R2P0_B
R2N0_B
R1P1_B
R1N1_B
R2P2_B
R2N2_B
R3P3_B
R3N3_B

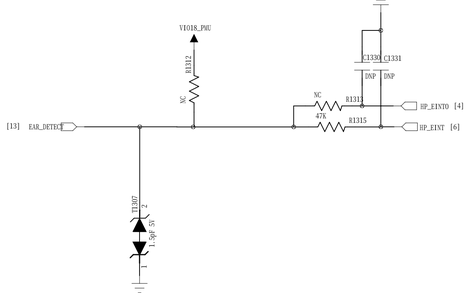

V1018_PMU [1,3,4,5,6,7,8,10,13,17]
R1300 NC
AD [13]
R1301 0
V1018_PMU
VSSS
L1300
WPN252012H180MT
1.2nm
C1300 4.7UF
C1301 100nF
C1302 1nF
C1303 100nF
C1304
R3 10K
C1308 22nF
TP1303
TP1300
TP1301
TP1302
U1300
AW88394
AW88394CSR
SCL [4,7,8]
SDA [4,7,8]
AD [13]
I2S1_BCK [4]
I2S1_LRCK [4]
I2S1_DO [4]
I2S2_DI [4]
A-AUD1O_RST1 [4]
EINT_SMARTPA1 [4]
R1305 10K
C1311 100nF
C1312 100nF
C1313 100nF
C1314 100nF
D1300 P0641TD3
R1302 4.7K
R1303 4.7K
L1303 220/100E
L1304 220/100E
C1319 NC
C1320 100pF
C1321 100pF
80000027 SPK1301
80000027 SKP1302

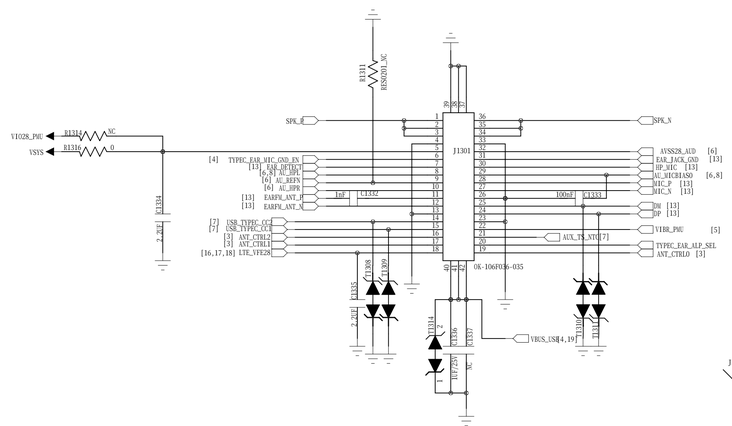

[6] AU_HSP
[6] AU_HSN
L1301 1000@100Ω_1ID
L1302 1000@100Ω_4X
C1306 100pF
C1315 33pF
C1316 33pF
T1300 1.5pF 5V
T1301 1.5pF 5V
REC1300 80000049
REC1301 80000049
REC1302 80000049

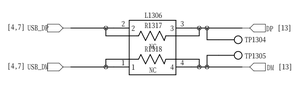

[6] AU_VIN0_P
[6] AU_VIN0_N
C1307 100nF
C1310 100nF
C1309 100pF
C1317 33pF
C1318 33pF
T1302 NC
T1303 NC
HTC_P [13]
HTC_N [13]

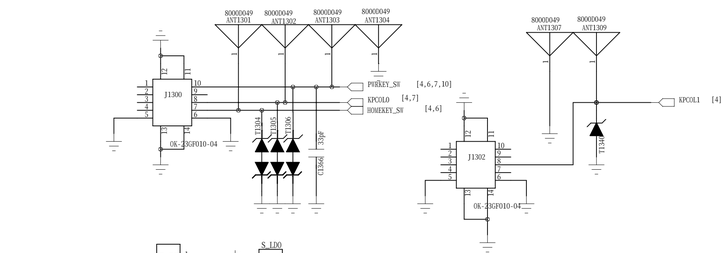

[6]NU_MICBIAS1
[6]AU_VIN1_N
[6]AU_VIN1_P
[6] ACCDET
CAP 0201 NC R1306
C1323 1nF
C1328 1nF
C1325 100pF
C1326 33pF
C1327 33pF
R1307 1K
R1308 NC
R1309 1.5K
R1310 0
C1322 100nF
C1324 4.7UF
L1305 68nH
C1329 33pF
EAR_JACK_GND [13]
HP_HTC [13]

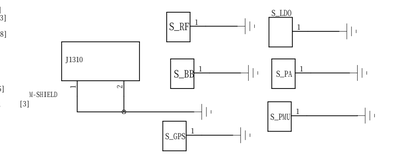

TP1306
T1304 1.5pF 5V
C1351 NC
R1352 0
C1352 NC
[5,8,10,12,13] V1028_PMU
L1315 68nH
C1355 100nF
U1303
AW37002
VCC
GND
BFOUT
RFIN
EN
AW50260NR
C1357 47nF
C1358 47nF
C1354 47nF
L1317 68nH
L1318 33nH
L1319 100nH
C1353 22pF
C1320 100nF
C1356 47pF
[13] EARFH_ANT_P
[13] EARFH_ANT_N
FH_LNA_EN [4]
L1314 68nH
C1359 100nF
C1360 100pF
U1304
AW35742
VCC
SEL
D1+
D1-
D2+
D2-
D+
OEB
GND
C136 100pF
FH_SEL [4]
FH_ANT_P [14]
FH_ANT_N [14]
FH_SWITCH_EN [4]
R1320 RES0201_NC
R1321 RES0201_NC

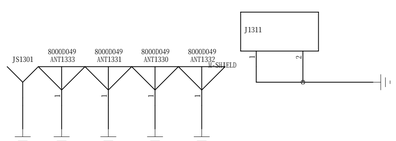

V1018_PMU
R1312 NC
[13] EAR_DETECT
C1330 DAP
C1331 DAP
R1314 NC
47K
R1315
HP_EINT0 [4]
HP_EINT [6]
T1307 1.5pF 5V


R1311 RES0201_NC
V1028_PMU
VSSS
R1313 NC
R1316 0
C1334 2.2UF
C1332 1nF
J1301
0K-106F036-03S
SPK_P
SPK_N
[4] TYPEC_EAR_MIC_GND_EN
[13] EAR_DETECT
[6,8] AU_HSPK
[6] AU_HSPK
[13] EARFH_ANT_P
[13] EARFH_ANT_N
[2] USB_TYPEC_CC1
[7] USB_TYPEC_CC2
[3] ANT_CTRL2
[3] ANT_CTRL1
[16,17,18] LTE_VFE28
AVSS28_AUD [6]
EAR_JACK_GND [13]
HP_MIC [13]
MIC_HSBIAS0 [6,8]
MIC_P [13]
MIC_N [13]
C1333 100nF
DM [13]
DP [13]
AUX_TS_NTC [7]
TYPEC_EAR_ALP_SEL
ANT_CTRL0 [3]
VIBR_PMU [5]
T1308
T1309
C1335 2.2UF
T1310
T1311
T1312
T1313
T1314
R1317 NC
VBUS_USB [4,19]


L1306
R1317 0
R1318 NC
[4,7] USB_DP
[4,7] USB_DN
DP [13]
DN [13]
TP1304
TP1305


80000049 ANT1301
80000049 ANT1302
80000049 ANT1303
80000049 ANT1304
J1300
0K-2GF010-04
PWRKEY_SH [4,6,7,10]
KPCOL0 [4,7]
HOMEKEY_SH [4,6]
T1304
T1305
T1306
C1358 33pF
80000049 ANT1307
80000049 ANT1309
J1302
0K-2GF010-04
KPCOL1 [4]
T1307


J1310
W-SHIELD [3]
S_RF
S_BB
S_GPS
S_LDO
S_PA
S_PMU
S_CHARGE
S_NFC


JS1301
80000049 ANT1333
80000049 ANT1331
80000049 ANT1330
80000049 ANT1332
J1311
SHIELD

80000049
ANT1400

80000049
ANT1401

80000049
ANT1402

R1403
0

R1404
0

C1410
NC

C1411
NC

T1400

GPS_RF [14]

F1400

1 GND
2 COM
3 GND
4 LB
5 GND
6 HB
7 GND
8 NC

TRPX / TPX205950UT-7110A1

WIFI5G_RF [14]

WIFI_RF [14]

U1402

RHFR11C1575UB001

1 IN
2 GND
3 GND
4 OUT
5 GND
6 GND
7 GND

C1415
18pF

L1407
5.6nH

C1416
DNP

C1421
DNP

U1403

SKY13250

1 RFIN
2 GND
3 GND
4 VCC
5 SHDN
6 RFOUT

R1409
0

R1410
0

VCN28_PMU [5,14]

GPIO_GPS_LNA_EN [4]

RF_GSSSL1_RX_LNA_OUT [14]

R1408
0

C1417
CAP 0201 NC

C1418
CAP 0201 NC

[14] GPS_RF

U1400
NDH9024-2442SA

1 IN
2 GND
3 GND
4 OUT
5 GND
6 GND
7 GND
8 GND

[14] WIFI_RF

C1400
20pF

L1400
DNP

L1401
4.3nH

C1401
20pF

L1402
4.3nH

L1403
DNP

[14] AVDD18_WBT

C1407
100nF

C1408
100nF

WIFI_AUX_2G 30
WB_VDET_2G 29
WIFI_VDET_5G 28
AVDD18_WBT 27
AVDD18_WBT 26
BT_DATA 25
BT_CLK 24
WC_CTRL0 23
WC_CTRL1 22
WC_CTRL2 21

CONN_BT_DATA [4]
CONN_BT_CLK [4]
CONN_WF_CTRL0 [4]
CONN_WF_CTRL1 [4]
CONN_WF_CTRL2 [4]

31 WB_RF_2G
32 NC
33 AVDD33_WBT
34 WF_RF_5G
35 WF_AUX_5G
36 AVDD28_FM
37 FM_LANT_N
38 FM_LANT_P
39 GPS_RFIN
40 AVDD18_GPS
41 DVSS

AVDD33_WBT [14]

C1404
4.7UF

C1405
100nF

L1404
0402DO1 NC

L1405
0402DO1 NC

R1400
0

[14] WIFI5G_RF

[14] AVDD28

C1406
10nF

[13] FM_ANT_N

[13] FM_ANT_P

L1401
NC

L1402
NC

L1403
82nH

[14] RF_GSSSL1_RX_LNA_OUT

C1403
1.2nF

C1402
3.6nF

[14] AVDD18_GPS

C1409
4.7nF

U1401

MT6631X/B

WF_IP 20
WF_IN 19
WF_QP 18
WF_QN 17
BT_IP 16
BT_IN 15
BT_QP 14
BT_QN 13
GPS_IP 12
GPS_IN 11

WIFI_IP [4]
WIFI_IN [4]
WIFI_QP [4]
WIFI_QN [4]
BT_IP [4]
BT_IN [4]
BT_QP [4]
BT_QN [4]
GPS_I [4]

MT6631

AVDD28_FSOURCE 1
CONN_HRST_B 2
CONN_TOP_DATA 3
CONN_TOP_CLK 4
WB_PTA 5
CEXT 6
NC 7
XO_IN 8
GPS_QN 9
GPS_QP 10

GPS_Q [4]

C1410
1nF

C1413
100pF

CONN_HRST_B [6]

CONN_TOP_DATA [6]

CONN_TOP_CLK [6]

CONN_WB_PTA [6]

R1406
0

R1407
0

[6] PMTC_CLK_RCV

[4] CONN_XO_EN_BB

[14] AVDD28

L1408

VCN28_PMU [5,14]

C1419
1uF

[14] AVDD18_GPS

R1411
0

VCN18_PMU [5]

[14] AVDD18_WBT

R1412
0

C1420
1uF

[14] AVDD33_WBT

R1413
0

VCN33_PMU [5]

U1504

MT6186M

U1500
XFH3042-2155SA
L1500 2.4nH
L1501 DNP
1.1pF C1501
C1500 33pF
L1502 DNP
L1503 2.4nH
[15] RF_B1B4_DRX_RFIC
RF_B1B4866_DRX_SWITCH [16]

U1501
HFH311C0942UB001
L1505 1.1nH DNP
L1504
C1503 1.5pF
C1502 18pF
L1506 2.7nH
DNP C1504
[15] RF_B8_DRX_RFIC
RF_B8_DRX_SWITCH [16]

U1502
HFH311C0658UB001
L1507 1.1nH
L1508 DNP
1.5pF C1506
C1505 18pF
L1509 2.7nH
DNP C1507
[15] RF_B7_DRX_RFIC
RF_B7_DRX_SWITCH [16]

U1503
XFH3042-7745A
L1510 1.1nH
L1511 DNP
C1509 1.5pF
C1508 18pF
L1512 2.7nH
C1510 DNP
[15] RF_B12B17_B13_DRX_RFIC
RF_B12B17_B13_DRX_SWITCH [16]

U1505
XFH3042-1891SA
L1513 2.2nH
L1514 2.4nH
L1515 DNP
L1516 DNP
C1511 33pF
C1512 8pF
[15] RF_B34B39_DRX_RFIC
RF_B34B39_DRX_SWITCH [16]

U1506
HFH311C0658UB001
L1517 2.2nH
L1518 DNP
1.8pF C1529
C1528 33pF
L1519 DNP
L1520 2.4nH
[15] RF_B34B41_DRX_RFIC
RF_B34B41_DRX_SWITCH [16]

U1507
HFH311C0658UB001
L1521 2.2nH
L1522 DNP
1.1pF C1532
C1531 10pF
1.1pF C1533
DNP C1534
[15] RF_B40_DRX_RFIC
RF_B40_DRX_SWITCH [16]

[16] RF_B2_DRX_RFIC
[15] RF_B1B4_DRX_RFIC
[15] RF_B7_DRX_RFIC
[15] RF_B3841_DRX_RFIC
[15] RF_B34B39_DRX_RFIC
[15] RF_B40_DRX_RFIC
[16] RF_B3_DRX_RFIC

RF_B2_PRX_RFIC [18]
RF_B4_PRX_RFIC [18]
RF_B3841_PRX_RFIC [17]
RF_B3_PRX_RFIC [18]
RF_B1_PRX_RFIC [18]
RF_B7_PRX_RFIC [18]
RF_B3439_PRX_RFIC [18]
RF_B40_PRX_RFIC [17]
RF_B28_DRX_RFIC [16]
RF_B20_DRX_RFIC [16]
RF_B5_DRX_RFIC [16]
RF_B12B17_B13_DRX_RFIC [15]
RF_B8_DRX_RFIC [15]
RF_B5B19_PRX_RFIC [18]
RF_B8_PRX_RFIC [18]
RF_B28B20_PRX_RFIC [18]
RF_B12B17_PRX_RFIC [18]
RF_B28A_PRX_RFIC [18]

MT6186M/A

GND: C16 C15 C14 C4 B15 B11 B9 B7 B5 B3 B6 K5 G4 R4 E14 N10 G10
TEST0 TEST1 TEST2 L10
TEST
UHB: A10 A8 A6 A4
RX_DUHB2 RX_DUHB1 RX_FUHB2 RX_FUHB1
DRX MHB: A2 B1 C2 D1 E2 F1 G2 H1
RX_DMHB8 RX_DMHB7 RX_DMHB6 RX_DMHB5 RX_DMHB4 RX_DMHB3 RX_DMHB2 RX_DMHB1
PRX MHB: K1 L2 M1 N2 P1 R2 T1 U2
RX_PMHB8 RX_PMHB7 RX_PMHB6 RX_PMHB5 RX_PMHB4 RX_PMHB3 RX_PMHB2 RX_PMHB1
DRX LB: V1 W2 V3 W4 V5 W6
RX_DLB5 RX_DLB4 RX_DLB3 RX_DLB2 RX_DLB1
PRX LB: V7 W8 V9 W10
RX_PLB5 RX_PLB4 RX_PLB3 RX_PLB2 RX_PLB1

D3 D5 D13 D15 E6 E10 F3 F9 G12 H3 J7 J9 J10 K3 K7 K9 L6 M3 M7 M13 N8 N12 P3 P7 R4 R8 R10 T3 T5 T13 T15 U4 U8 U10 U16 V11 V15 — GND

XO: K13 FSRC1
DETIF: G8 RCAL; H13 EN_BB; H11 CLKSM; N16 MRX_BBQ; P17 MRX_BBI
DRX(I/Q): G14 RX_DBHQ2; H15 RX_DBHI2; J14 RX_DBHQ1; K15 RX_DBHI1
PRX(I/Q): G16 RX_PBHQ2; H17 RX_PBHI2; J16 RX_PBHQ1; K17 RX_PBHI1; L16 NC; M17 NC
TX(I/Q): P15 TX0_BHQ_M; P13 TX0_BHQ_P; L14 TX0_BHI_M; L12 TX0_BHI_P; F15 NC; C14 NC; C12 NC
BSI: J12 BSI_EN; L12 BSI_CK; M11 BSI_DATA0; K11 BSI_DATA1

R1506 2K 1%
R1507 0
[3,6] SRCLKENA
[6] PMIC_CLK_BB
RFIC0_BSI_D1 [3]
RFIC0_BSI_D0 [3]
RFIC0_BSI_CK [3]
RFIC0_BSI_EN [3]

[3]LTE_DET_BB_QO
[3]LTE_DET_BB_IO
[3]LTE_DRX_BB_Q2
[3]LTE_DRX_BB_I2
[3]LTE_DRX_BB_Q1
[3]LTE_DRX_BB_I1
LTE_TX_BB_IP0 [3]
LTE_TX_BB_IM0 [3]
LTE_TX_BB_QP0 [3]
LTE_TX_BB_QM0 [3]
LTE_PRX_BB_I1 [3]
LTE_PRX_BB_Q1 [3]
LTE_PRX_BB_I2 [3]
LTE_PRX_BB_Q2 [3]

PDET: MRX0_RF N14; NC E17
R1500 1
R1501 37.4
R1502 2
150
150
RF_TXDET0_RFIC [18]

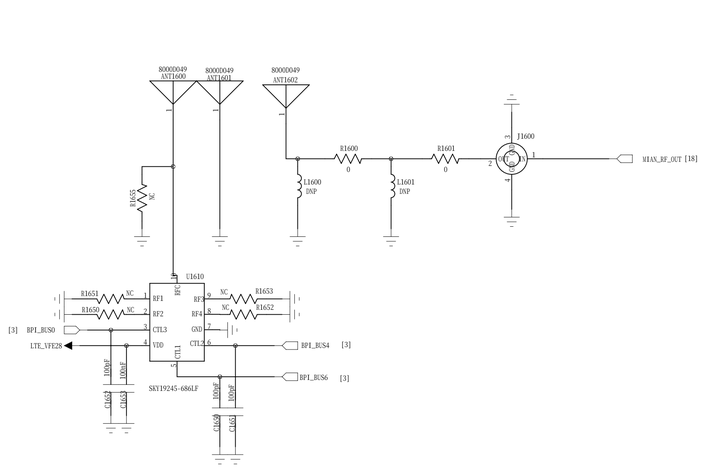
TXO:
TX0_LB1 V17 — RF_TX0_LB1_RFIC [17]
TX0_LB2 W16 — RF_TX0_LB2_RFIC [18]
TX0_MB1 W14 — RF_TX1_MB1_RFIC [17]
TX0_MB2 W12 — RF_TX0_MB2_RFIC [18]
TX0_HB1 V13 — RF_TX1_HB_RFIC [17]
NC A12; NC B13; NC B17; NC A14; NC A16

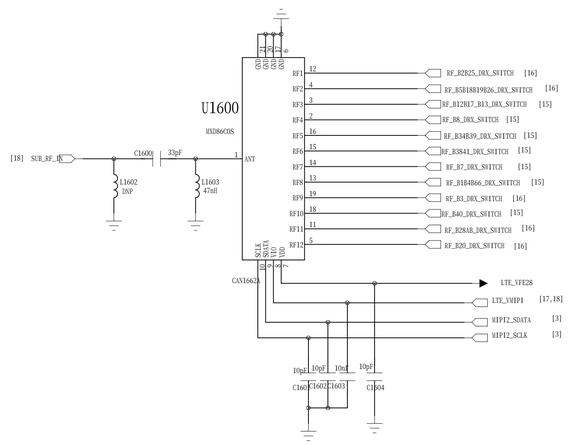
Power:
VDDL_TX0_HF T11 — VRF12_TX
VDDL_TX0_LF P11
VDDL_STX_HF D11
VDDL_RX_LF E11 — VRF18_RFIC
VDDH_TX0_HF T17
VDDH_TOP D17
VDDL_RXSRX0_HF N6 — VRF12_SRX
VDDL_RXSRX1_HF G6
VDDH_RXSRX T7 — VRF18_RFIC
VDDH_SRX J6
VDDH_RX_HF D7
NC T5
VDDL_RX_HF J4 — VRF12_RX
VDDL_SRX_LF H5
NC C8
NC D5

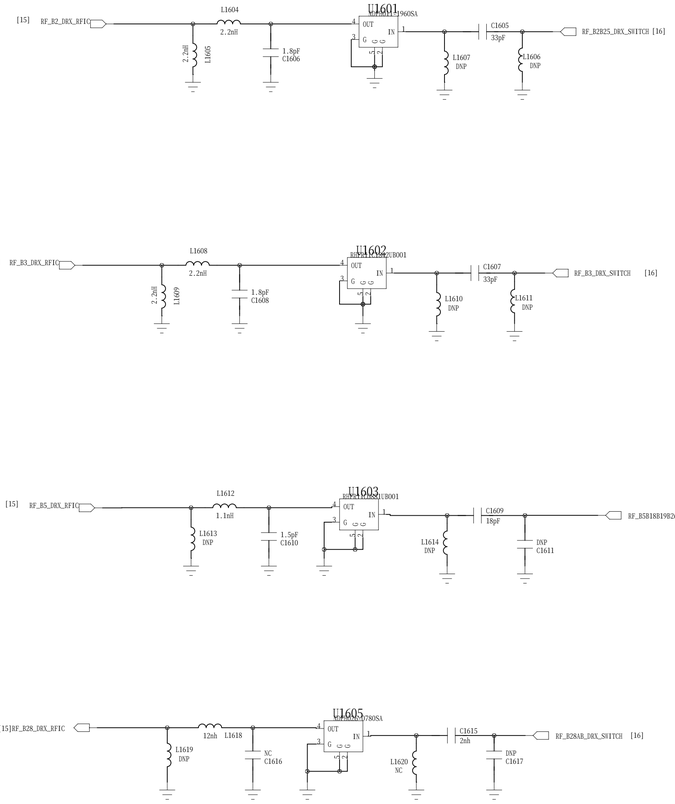
C1513 100nF; C1514 100nF; C1515 100nF; C1516 100nF; C1517 100nF; C1518 100nF; C1519 100nF; C1520 100nF; C1521 100nF; C1522 100nF; C1523 100nF; C1524 100nF; C1525 100nF

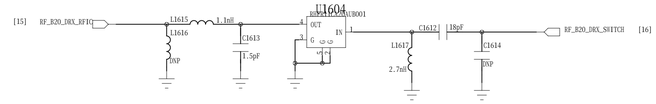
VRF12_TX — R1503 0
VRF12_SRX — R1504 0 — S1500 OR/NC 4HH1 — VRF12_S [5]
VRF12_RX — R1505 0 — VRF12_PMU
C1526 2.2UF
C1527 10uF 6.3V

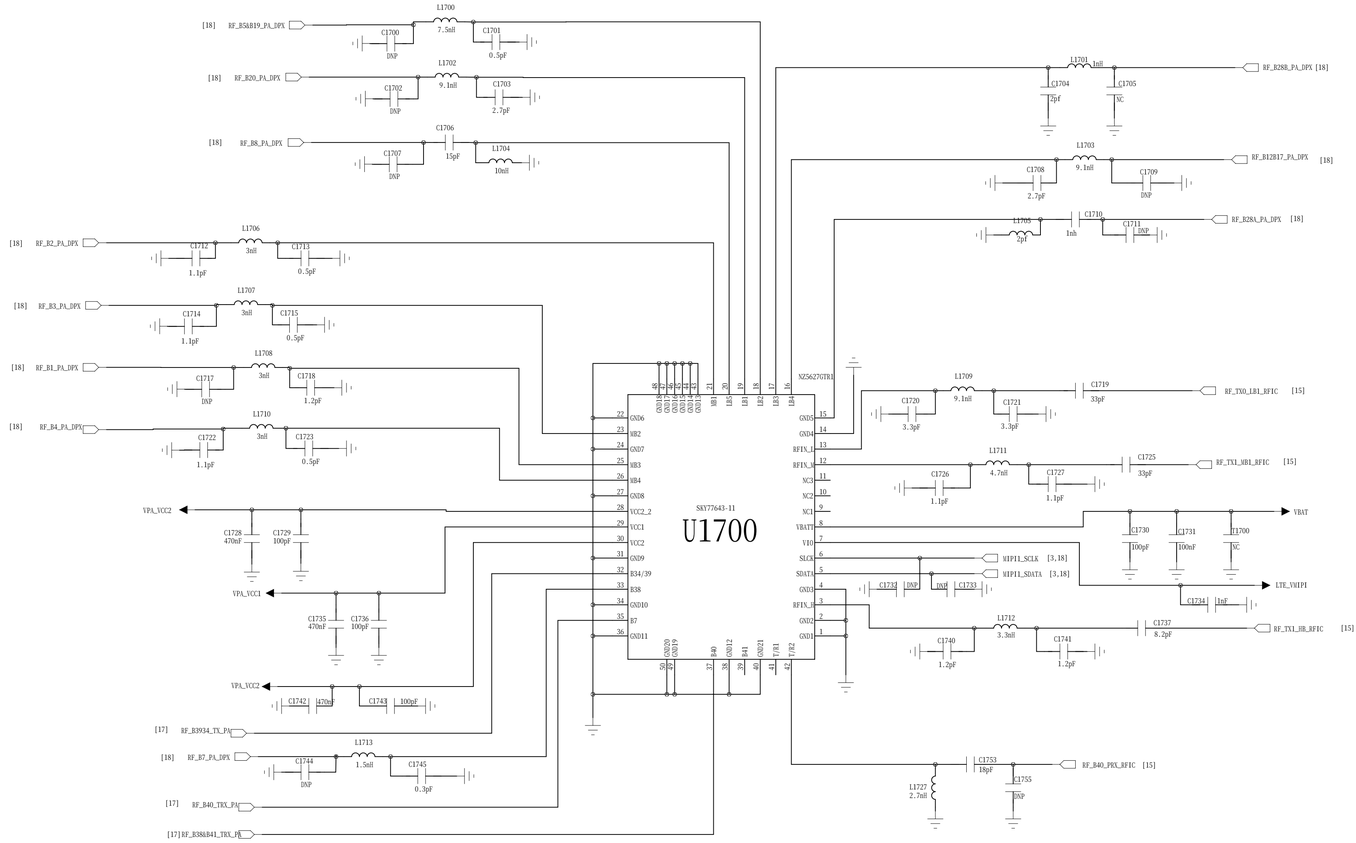
VRF18_RFIC — R1508 0 — VRF18_PMU
C1530 4.7UF

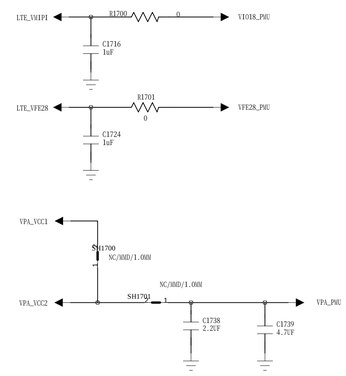

80000049
ANT1600
80000049
ANT1601
80000049
ANT1602
R1600
0
R1601
0
J1600
R1655
NC
L1600
DNP
L1601
DNP
WIAN_RF_OUT [18]
U1610
RFC
RF1
RF2
CTL3
VIO
RF3
RF4
GND
CTL2
CTL1
R1654
NC
R1650
NC
R1653
NC
R1652
NC
[3] BPI_BUS0
LTE_VFE28
BPI_BUS4 [3]
BPI_BUS6 [3]
100pF
C1651
100pF
C1653
100pF
C1652
100pF
C1654
SKY19245-686LF

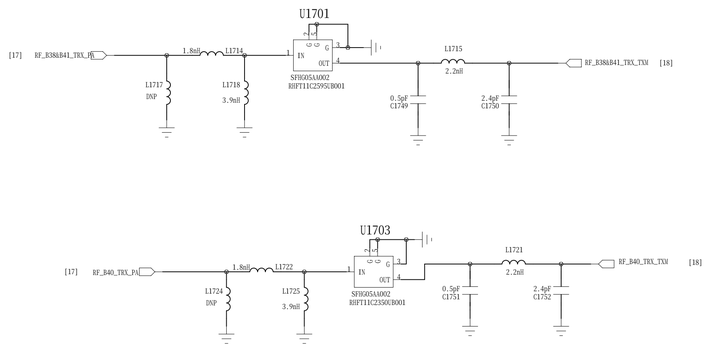

U1600
WUD86COS
[18] SUB_RF_IN
C1600
33pF
L1602
DNP
L1603
47nH
ANT
RF1
RF2
RF3
RF4
RF5
RF6
RF7
RF8
RF9
RF10
RF11
RF12
RF_B2B25_DRX_SWITCH [16]
RF_B5B18B19B26_DRX_SWITCH [16]
RF_B12B17_B13_DRX_SWITCH [15]
RF_B8_DRX_SWITCH [15]
RF_B34B39_DRX_SWITCH [15]
RF_B3B41_DRX_SWITCH [15]
RF_B7_DRX_SWITCH [15]
RF_B1B4B66_DRX_SWITCH [15]
RF_B3_DRX_SWITCH [16]
RF_B40_50X_SWITCH [15]
RF_B28AB_DRX_SWITCH [16]
RF_B20_DRX_SWITCH [16]
SCLK
SDATA
VIO
VDD
CAN16623
LTE_VFE28
LTE_VHPI [17,18]
MIPI2_SDATA [3]
MIPI2_SCLK [3]
10pF
C1601
10pF
C1602
10pF
C1603
10pF
C1604

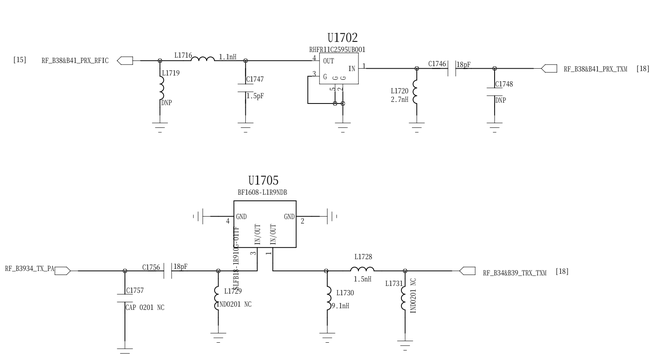

[15] RF_B2_DRX_RFIC
L1604
2.2nH
2.2nH
L1605
1.8pF
C1606
U1601
OUT
IN
C1605
33pF
L1607
DNP
C1606
DNP
RF_B2B25_DRX_SWITCH [16]
[15] RF_B3_DRX_RFIC
L1608
2.2nH
3.3nH
L1609
1.8pF
C1608
U1602
OUT
IN
C1607
33pF
L1610
DNP
L1611
DNP
RF_B3_DRX_SWITCH [16]
[15] RF_B5_DRX_RFIC
L1612
1.1nH
L1613
DNP
1.5pF
C1610
U1603
OUT
IN
C1609
18pF
L1614
DNP
DNP
C1611
[15]RF_B28_DRX_RFIC
12nh
L1618
L1619
DNP
NC
C1616
U1605
OUT
IN
C1615
2nh
L1620
NC
DNP
C1617
RF_B28AB_DRX_SWITCH [16]

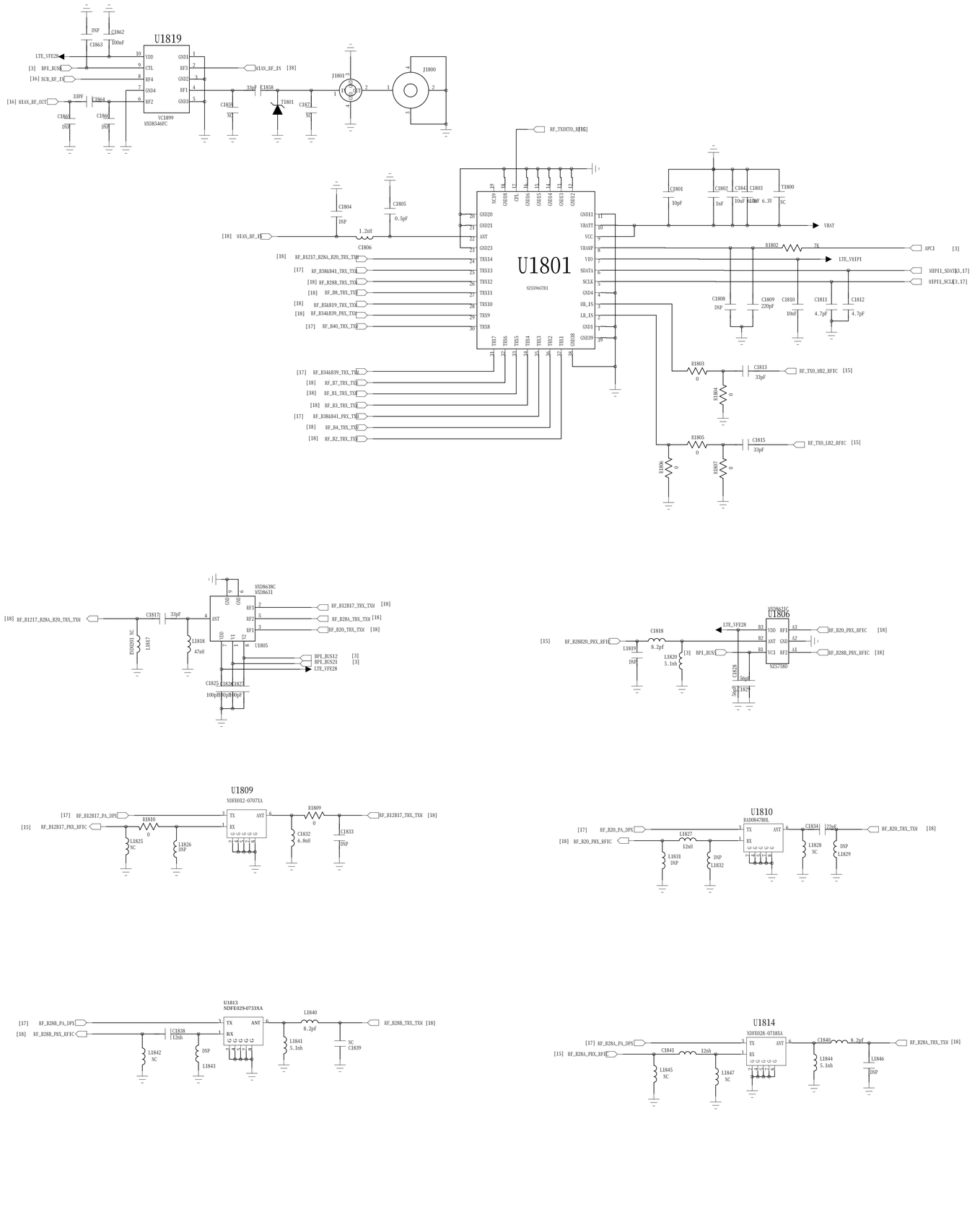

[15] RF_B20_DRX_RFIC
L1615
1.1nH
L1616
DNP
C1613
1.5pF
U1604
OUT
IN
C1612
18pF
L1617
2.7nH
C1614
DNP
RF_B20_DRX_SWITCH [16]

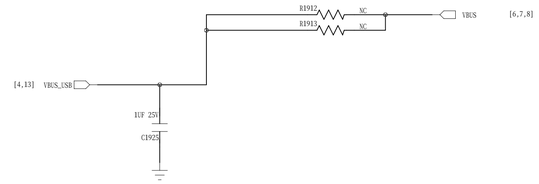

U1700
SKY77643-11
[18] RF_B5&B19_PA_DPX
[18] RF_B20_PA_DPX
[18] RF_B8_PA_DPX
[18] RF_B2_PA_DPX
[18] RF_B3_PA_DPX
[18] RF_B1_PA_DPX
[18] RF_B4_PA_DPX
[17] RF_B3934_TX_PA
[18] RF_B7_PA_DPX
[17] RF_B40_TRX_PA
[17] RF_B38&B41_TRX_PA
L1700 7.5nH
L1702 9.1nH
L1706 3nH
L1707 3nH
L1708 3nH
L1710 3nH
L1713 1.5nH
C1700 DNP
C1701 0.5pF
C1702 DNP
C1703 2.7pF
C1706 15pF
C1707 DNP
L1704 10nH
C1712 1.1pF
C1713 0.5pF
C1714 1.1pF
C1715 0.5pF
C1717 DNP
C1718 1.2pF
C1722 1.1pF
C1723 0.5pF
C1744 DNP
C1745 0.3pF
VPA_VCC2
VPA_VCC1
C1728 470nF
C1729 100pF
C1735 470nF
C1736 100pF
C1742 470nF
C1743 100pF
GND6
VB2
GND7
VB3
VB4
GND8
VCC2_2
VCC1
VCC2
GND9
B34/39
B38
GND10
B7
GND11
GND20
GND19
B40
GND12
B41
GND21
LTE1
LTE2
VB1
LB5
LB3
LB2
LB1
LB4
GND5
GND4
RFIN_L
RFIN_M
NC3
NC2
NC1
VBATT
VIO
SCLK
SDATA
GND3
RFIN_H
GND2
GND1
YZ5627GTR1
L1701 1nH
C1704 2pf
C1705 NC
L1703 9.1nH
C1708 2.7pF
C1709 DNP
L1705 2pF
C1710 1nh
C1711 DNP
RF_B28A_PA_DPX [18]
RF_B28B_PA_DPX [18]
RF_B12B17_PA_DPX [18]
L1709 9.1nH
C1719 33pF
C1720 3.3pF
C1721 3.3pF
RF_TX0_LB1_RFIC [15]
L1711 4.7nH
C1725 33pF
C1726 1.1pF
C1727 1.1pF
RF_TX1_MB1_RFIC [15]
VBAT
C1730 100pF
C1731 100nF
C1700 NC
MIPI1_SCLK [3,18]
MIPI1_SDATA [3,18]
LTE_VHIPI
C1732 DNP
10pF
C1733
C1734 1nF
L1712 3.3nH
C1737 8.2pF
RF_TX1_HB_RFIC [15]
C1740 1.2pF
C1741 1.2pF
L1727 2.7nH
C1753 18pF
C1755 DNP
RF_B40_PRX_RFIC [15]
L1722 1.8nH
L1724 DNP
L1725 3.9nH
SFH605AA002
RIFT11C2350UB001
L1721 2.2nH
0.5pF C1751
2.4pF C1752
RF_B40_TRX_TXH [18]
L1714 1.8nH
L1717 DNP
L1718 3.9nH
SFH605AA002
RIFT11C2595UB001
L1715 2.2nH
0.5pF C1749
2.4pF C1750
RF_B38&B41_TRX_TXH [18]

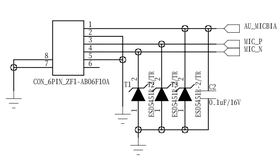

LTE_VHIPI
R1700 0
V1018_PMU
C1716 1uF
LTE_VFE28
R1701 0
VFE28_PMU
C1724 1uF
VPA_VCC1
SH1700 NC/0DD/1.00H
VPA_VCC2
SH1701 NC/0DD/1.00H
C1738 2.2UF
C1739 4.7UF
VPA_PMU

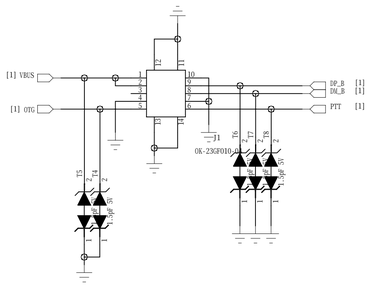

U1701
[17] RF_B38&B41_TRX_PA
1.8nH L1714
L1717 DNP
L1718 3.9nH
SFH605AA002
RIFT11C2595UB001
L1715 2.2nH
0.5pF C1749
2.4pF C1750
RF_B38&B41_TRX_TXH [18]
U1703
[17] RF_B40_TRX_PA
1.8nH L1722
L1724 DNP
L1725 3.9nH
SFH605AA002
RIFT11C2350UB001
L1721 2.2nH
0.5pF C1751
2.4pF C1752
RF_B40_TRX_TXH [18]

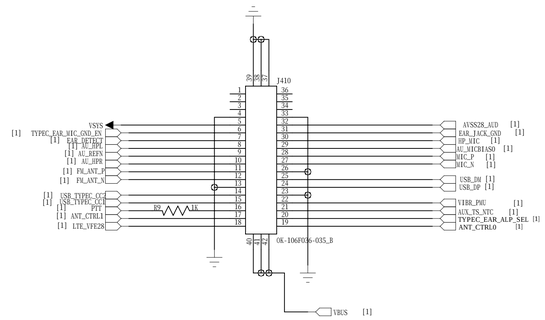

U1702
[15] RF_B38&B41_PRX_RFIC
L1716 1.1nH
L1719 DNP
C1747 1.5pF
RIFF11C2595UB001
L1720 2.7nH
C1746 18pF
C1748 DNP
RF_B38&B41_PRX_TXH [18]
U1705
RF1608-L189NDB
[17] RF_B3934_TX_PA
C1756 18pF
C1757 CAP 0201 NC
FLIP11-1891F-CMTHF
L1729 0D0201 NC
L1728 1.5nH
L1730 9.1nH
L1731 1X0201 NC
RF_B34&B39_TRX_TXH [18]

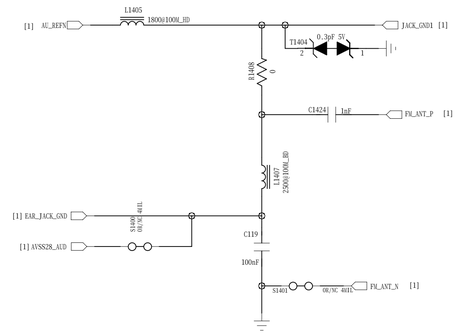

U1819
VC1899
WX2B546FC
DNP
C1862
C1863
100nF
LTE_VFE28
[3] BP1_BCS8
[16] SUB_RF_IN
[16] MIAN_RF_OUT
33PF
C1864
C1865
C1866
C1867
VDD
CTL
RF4
GND4
RF2
GND1
GND2
RF3
RF1
GND3
MIAN_RF_IN [18]
33pF
C1858
T1801
NC
J1801(**)
J1800
U1801
NZ5596GTR1
RF_TXDET0_H[16]
C1801
10pF
C1802
1nF
C1844
10uF
C1803
100nF 6.3V
T1800
NC
VBAT
C1804
DNP
C1805
0.5pF
1.2nH
C1806
[18] MIAN_RF_IN
R1802
2K
APC1 [3]
LTE_VM1P1
MIP11_SDAT[3,17]
MIP11_SCLK[3,17]
C1808
DNP
C1809
220pF
C1810
10nF
C1811
4.7pF
C1812
4.7pF
[18] RF_B1217_B28A_B20_TRX_TXM
[17] RF_B38&B41_TRX_TXM
[18] RF_B28B_TRX_TXM
[18] RF_B8_TRX_TXM
[18] RF_B5&B19_TRX_TXM
[18] RF_B34&B39_PRX_TXM
[17] RF_B40_TRX_TXM
[17] RF_B34&B39_TRX_TXM
[18] RF_B7_TRX_TXM
[18] RF_B1_TRX_TXM
[18] RF_B3_TRX_TXM
[17] RF_B38&B41_PRX_TXM
[18] RF_B4_TRX_TXM
[18] RF_B2_TRX_TXM
R1803
0
C1813
33pF
RF_TX0_HB2_RFIC [15]
R1804
0
R1805
0
C1815
33pF
RF_TX0_LB2_RFIC [15]
R1806
0
R1807
0
U1800
LB02140B0F
[17] RF_B1_PA_DPX
[15] RF_B1_PRX_RFIC
R1801
0
L1802
1.5nH
DNP
L1800
TX
RX
ANT
R1800
0
L1801
3.9nH
DNP
C1800
RF_B1_TRX_TXM [18]
U1802
B39182B8680P810
[17] RF_B2_PA_DPX
[15] RF_B2_PRX_RFIC
L1804
2nH
L1806
2.7nH
NC
L1807
L1803
0R
L1805
3nH
C1807
DNP
RF_B2_TRX_TXM [18]
U1803
RADI843B09
[17] RF_B3_PA_DPX
[15] RF_B3_PRX_RFIC
L1809
33pF
L1811
3.9nH
3.9nH
L1812
L1808
1.8nH
L1810
3.3nH
C1814
DNP
RF_B3_TRX_TXM [18]
U1804
NDFE066-1745XA
[17] RF_B4_PA_DPX
[15] RF_B4_PRX_RFIC
L1813
1.5nH
L1815
DNP
L1816
2.2pF
R1808
0
L1814
NC
2.7nH
C1816
RF_B4_TRX_TXM [18]
U1805
WX0638C
WX0631
[18] RF_B1217_B28A_B20_TRX_TXM
C1817
33pF
L1817
0.5nH
L1818
47nH
RF_B12B17_TRX_TXM [18]
RF_B28A_TRX_TXM [18]
RF_B20_TRX_TXM [18]
BP1_BCS12 [3]
BP1_BCS21 [3]
LTE_VFE28
C1825
100pH
C1826
100pH
C1827
100pH
U1806
NZ5758G
[15] RF_B28B20_PRX_RFIC
C1818
8.2pf
L1819
DNP
L1820
5.1nh
[3] BP1_BCS
C1828
56pH
C1829
56pH
C1824
LTE_VFE28
RF_B20_PRX_RFIC [18]
RF_B28B_PRX_RFIC [18]
U1807
[15] RF_B34&B39_PRX_RFIC
C1819
1.5nH
L1821
2.4nH
C1821
DNP
C1822
L1813 1.5nH
L1814 NC
L1815 DNP
GND
C1820
DNP
C1823
33pF
DNP
C1824
RF_B34&B39_PRX_TXM [18]
LF1608-E1R7NAA
U1808
RHDX18CC07BUB001
[17] RF_B7_PA_DPX
[15] RF_B7_PRX_RFIC
C1830
12nH
L1823
NC
DNP
L1824
L1821
2nH
L1822
8.2nH
NC
C1831
RF_B7_TRX_TXM [18]
U1809
NDFE012-0707XA
[17] RF_B12B17_PA_DPX
[15] RF_B12B17_PRX_RFIC
R1810
0
L1825
NC
L1826
DNP
R1809
0
C1832
6.8nH
C1833
DNP
RF_B12B17_TRX_TXM [18]
U1810
RADS47B0L
[17] RF_B20_PA_DPX
[18] RF_B20_PRX_RFIC
L1827
12nH
L1831
DNP
DNP
L1832
C1834
22pF
L1828
NC
DNP
L1829
RF_B20_TRX_TXM [18]
U1811
NDFE026-0836XA
[17] RF_B5&B19_PA_DPX
[15] RF_B5&B19_PRX_RFIC
L1830
2.7nH
1.8pF
C1836
DNP
L1834
R1811
0
L1833
2.2nH
DNP
C1835
RF_B5&B19_TRX_TXM [18]
U1812
RAD0943B0Q
[17] RF_B8_PA_DPX
[15] RF_B8_PRX_RFIC
C1837
12nH
L1838
NC
DNP
L1839
L1835
2nH
L1836
8.2nH
DNP
L1837
RF_B8_TRX_TXM [18]
U1813
NDFE029-0733XA
[17] RF_B28B_PA_DPX
[18] RF_B28B_PRX_RFIC
C1838
12nh
L1842
NC
DNP
L1843
L1840
8.2pf
L1841
5.1nh
NC
C1839
RF_B28B_TRX_TXM [18]
U1814
NDFE028-0718XA
[17] RF_B28A_PA_DPX
[15] RF_B28A_PRX_RFIC
C1841
12nh
L1845
NC
L1847
NC
C1840
8.2pf
L1844
5.1nh
L1846
DNP
RF_B28A_TRX_TXM [18]

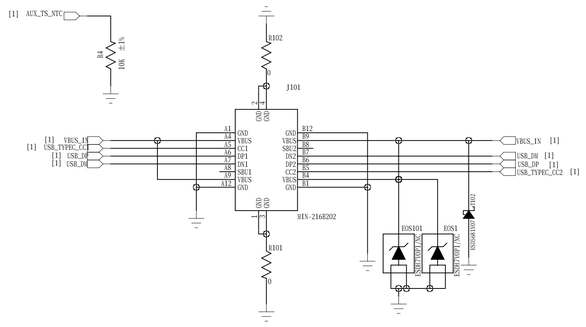

R1912
NC
R1913
NC
VBUS
[6,7,8]
[4,13] VBUS_USB
1UF 25V
C1925

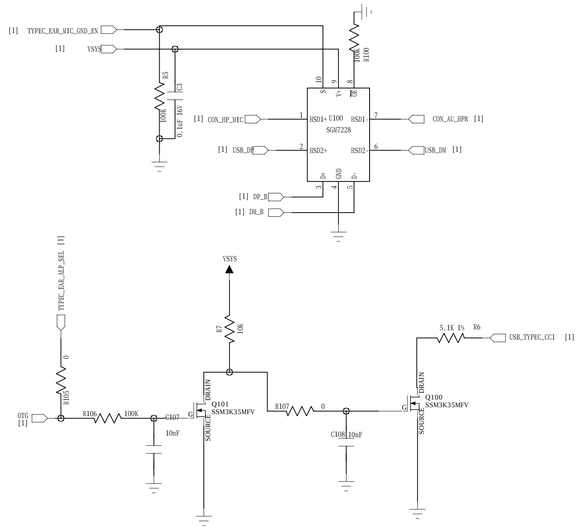


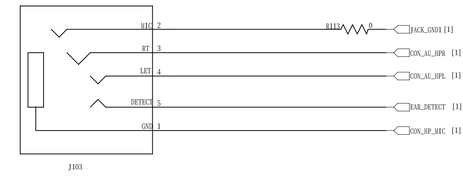


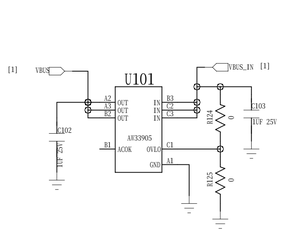


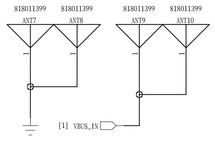
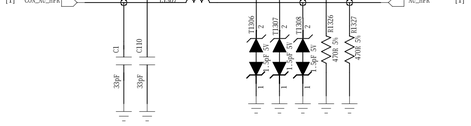
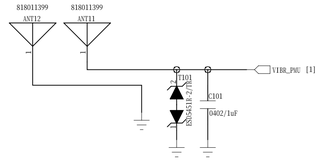
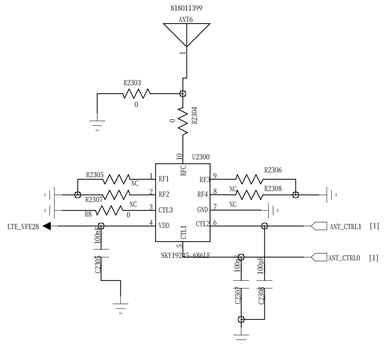
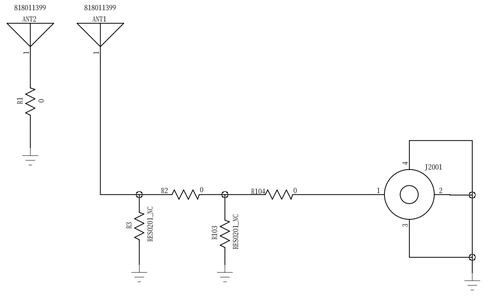
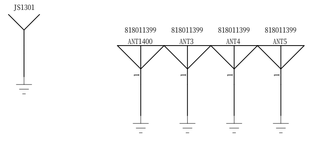












$\overline{OE}$	S	HSD1+ HSD1-	HSD2+ HSD2-
0	0	ON	OFF
0	1	OFF	ON
1	×	OFF	OFF