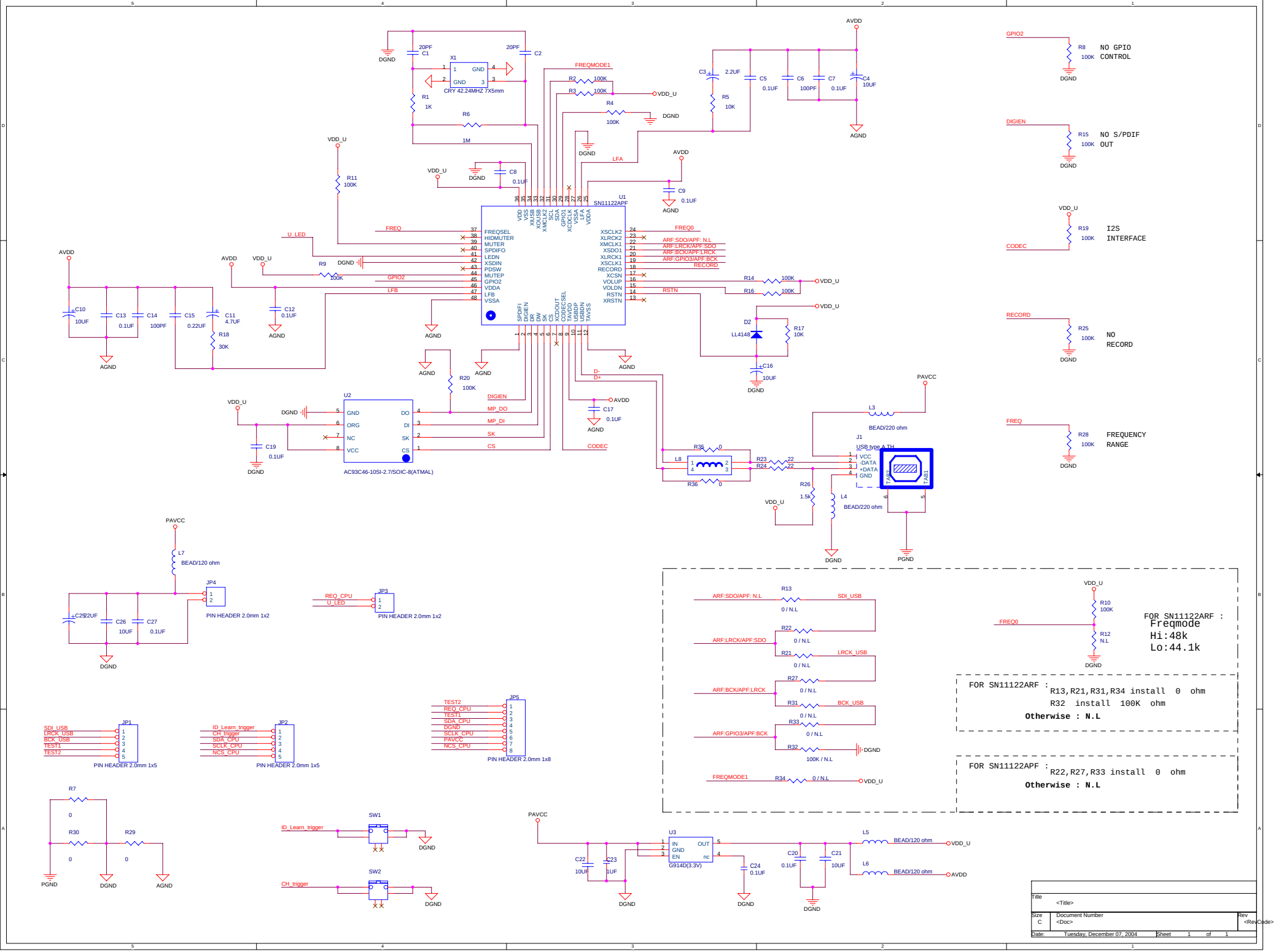
X1
CRY 42.24MHZ 7X5mm
U1
SN11122APF
U2
AC93C46-10SI-2.7/SOIC-8(ATMAL)
U3
G914D(3.3V)
J1
USB type A TH
JP1
JP2
JP3
JP4
JP5
PIN HEADER 2.0mm 1x5
PIN HEADER 2.0mm 1x2
PIN HEADER 2.0mm 1x8
SW1
SW2
FREQMODE1
LFA
RSTN
RECORD
FREQ0
MP_DO
MP_DI
SK
CS
CODEC
DIGIEN
U_LED
REQ_CPU
ID_Learn_trigger
CH_trigger
SDI_USB
LRCK_USB
BCK_USB
SDA_CPU
SCLK_CPU
NCS_CPU
PAVCC
AVDD
VDD_U
DGND
AGND
PGND
GPIO2
NO GPIO CONTROL
DIGIEN
NO S/PDIF OUT
CODEC
I2S INTERFACE
RECORD
NO RECORD
FREQ
FREQUENCY RANGE
ARF:SDO/APF: N.L
ARF:LRCK/APF:SDO
ARF:BCK/APF:LRCK
ARF:GPIO3/APF:BCK
FOR SN11122ARF :
Freqmode
Hi:48k
Lo:44.1k
FOR SN11122ARF :
R13,R21,R31,R34 install 0 ohm
R32 install 100K ohm
Otherwise : N.L
FOR SN11122APF :
R22,R27,R33 install 0 ohm
Otherwise : N.L
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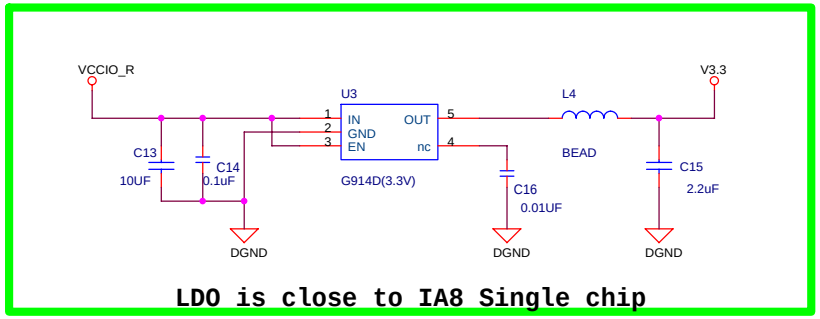

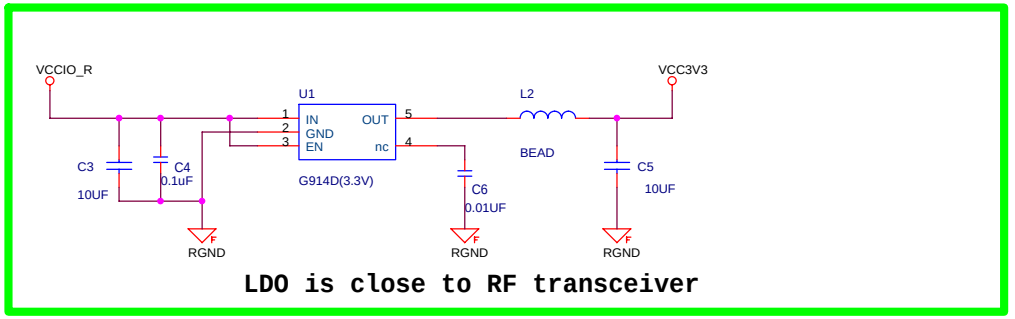

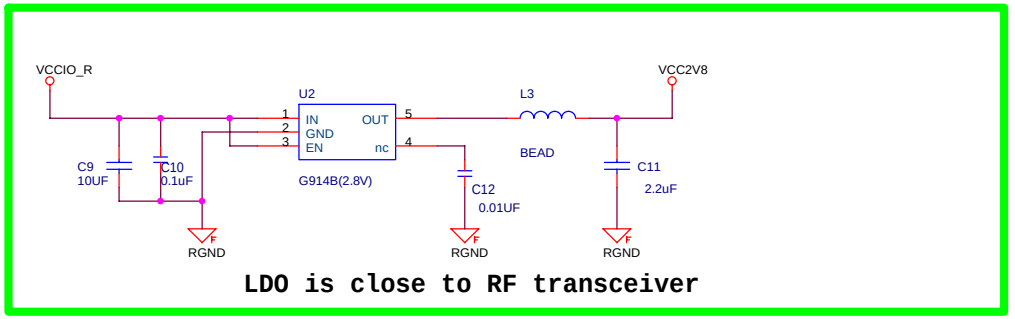

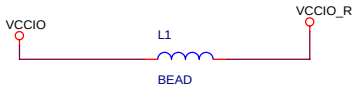

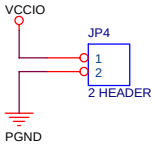

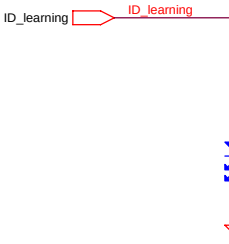

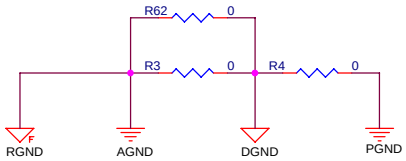

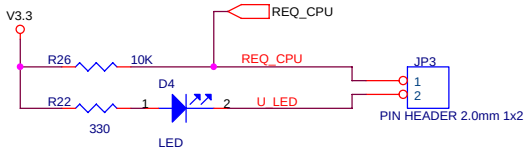

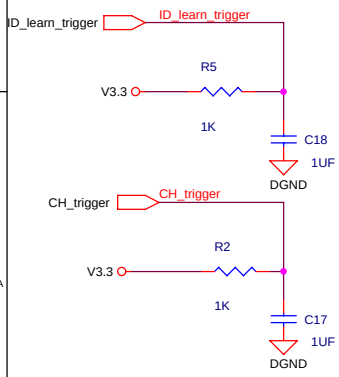

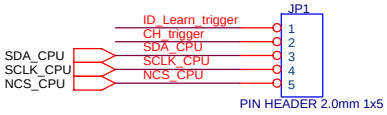

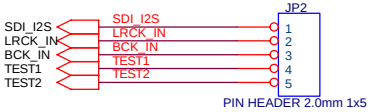

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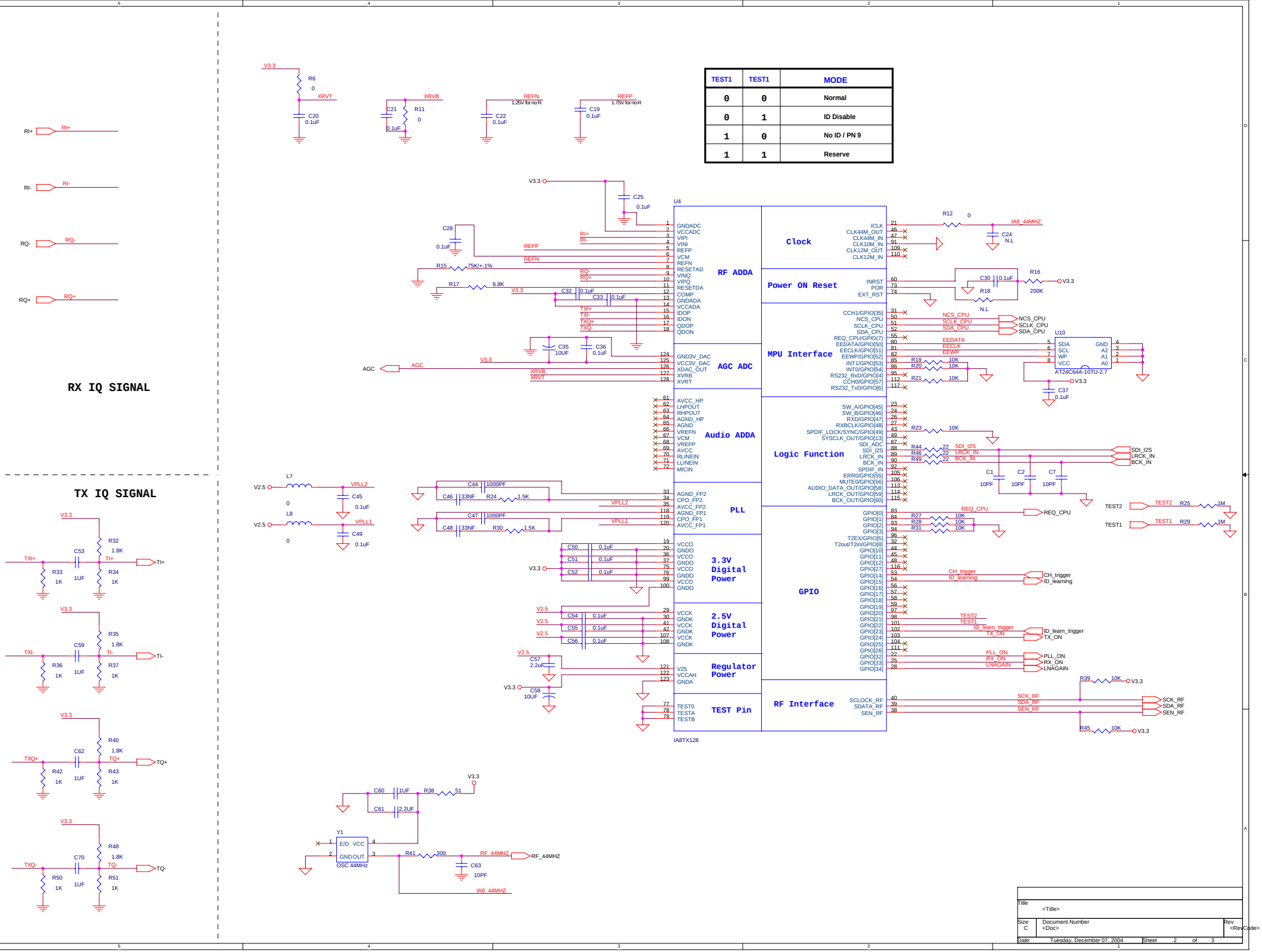
RI+
RI-
RQ-
RQ+
RX IQ SIGNAL
TX IQ SIGNAL
V3.3
R6
0
XRVT
C20
0.1uF
XRVB
C21
R11
0
0.1uF
REFN
1.25V for no R
C22
0.1uF
REFP
1.75V for no R
C19
0.1uF
TEST1
TEST1
MODE
0
0
Normal
0
1
ID Disable
1
0
No ID / PN 9
1
1
Reserve
U4
C25
0.1uF
C28
0.1uF
R15
75K/+-1%
R17
6.8K
C32
0.1uF
C33
0.1uF
C35
10UF
C36
0.1uF
AGC
GNDADC
VCCADC
VIPI
VINI
REFP
VCM
REFN
RESETAD
VINQ
VIPQ
RESETDA
COMP
GNDADA
VCCADA
IDOP
IDON
QDOP
QDON
RF ADDA
GND3V_DAC
VCC3V_DAC
XDAC_OUT
XVRB
XVRT
AGC ADC
AVCC_HP
LHPOUT
RHPOUT
AGND_HP
AGND
VREFN
VCM
VREFP
AVCC
RLINEIN
LLINEIN
MICIN
Audio ADDA
L7
L8
C45
0.1uF
C49
0.1uF
C44
1000PF
C46
33NF
R24
1.5K
C47
1000PF
C48
33NF
R30
1.5K
VPLL2
VPLL1
AGND_FP2
CPO_FP2
AVCC_FP2
AGND_FP1
CPO_FP1
AVCC_FP1
PLL
C50
0.1uF
C51
0.1uF
C52
0.1uF
VCCO
GNDO
3.3V Digital Power
C54
0.1uF
C55
0.1uF
C56
0.1uF
VCCK
GNDK
2.5V Digital Power
C57
2.2uF
C58
10UF
V25
VCCAH
GNDA
Regulator Power
TEST0
TESTA
TESTB
TEST Pin
IA8TX128
Clock
ICLK
CLK44M_OUT
CLK44M_IN
CLK10M_IN
CLK12M_OUT
CLK12M_IN
R12
0
IA8_44MHZ
C24
N.L
Power ON Reset
INRST
POR
EXT_RST
C30
0.1uF
R16
200K
R18
N.L
MPU Interface
CCH1/GPIO[35]
NCS_CPU
SCLK_CPU
SDA_CPU
REQ_CPU/GPIO(7)
EEDATA/GPIO[50]
EECLK/GPIO[51]
EEWP/GPIO[52]
INT1/GPIO[53]
INT0/GPIO[54]
RS232_RxD/GPIO[4]
CCH0/GPIO[57]
RS232_TxD/GPIO[6]
R19
10K
R20
10K
R21
10K
U10
SDA
SCL
WP
VCC
GND
A2
A1
A0
AT24C64A-10TU-2.7
C37
0.1uF
Logic Function
SW_A/GPIO[45]
SW_B/GPIO[46]
RXD/GPIO[47]
RXBCLK/GPIO[48]
SPDIF_LOCK/SYNC/GPIO[49]
SYSCLK_OUT/GPIO[13]
SDI_ADC
SDI_I2S
LRCK_IN
BCK_IN
SPDIF_IN
ERR0/GPIO[55]
MUTE0/GPIO[56]
AUDIO_DATA_OUT/GPIO[58]
LRCK_OUT/GPIO[59]
BCK_OUT/GPIO[60]
R23
10K
R44
22
R46
22
R49
22
SDI_I2S
LRCK_IN
BCK_IN
C1
10PF
C2
10PF
C7
10PF
GPIO
GPIO[0]
GPIO[1]
GPIO[2]
GPIO[3]
T2EX/GPIO[5]
T2out/T2in/GPIO[8]
GPIO[10]
GPIO[11]
GPIO[12]
GPIO[27]
GPIO[14]
GPIO[15]
GPIO[16]
GPIO[17]
GPIO[18]
GPIO[19]
GPIO[20]
GPIO[21]
GPIO[22]
GPIO[23]
GPIO[24]
GPIO[25]
GPIO[26]
GPIO[32]
GPIO[33]
GPIO[34]
R27
10K
R28
10K
R31
10K
REQ_CPU
CH_trigger
ID_learning
TEST2
TEST1
ID_learn_trigger
TX_ON
PLL_ON
RX_ON
LNAGAIN
R25
1M
R29
1M
RF Interface
SCLOCK_RF
SDATA_RF
SEN_RF
R39
10K
R45
10K
SCK_RF
SDA_RF
SEN_RF
C60
1UF
R38
51
C61
2.2UF
Y1
E/D
VCC
GND
OUT
OSC 44MHz
R41
300
RF_44MHZ
C63
10PF
IA8_44MHZ
TXI+
TXI-
TXQ+
TXQ-
TI+
TI-
TQ+
TQ-
R32
1.8K
R33
1K
R34
1K
C53
1UF
R35
1.8K
R36
1K
R37
1K
C59
1UF
R40
1.8K
R42
1K
R43
1K
C62
1UF
R48
1.8K
R50
1K
R51
1K
C70
1UF
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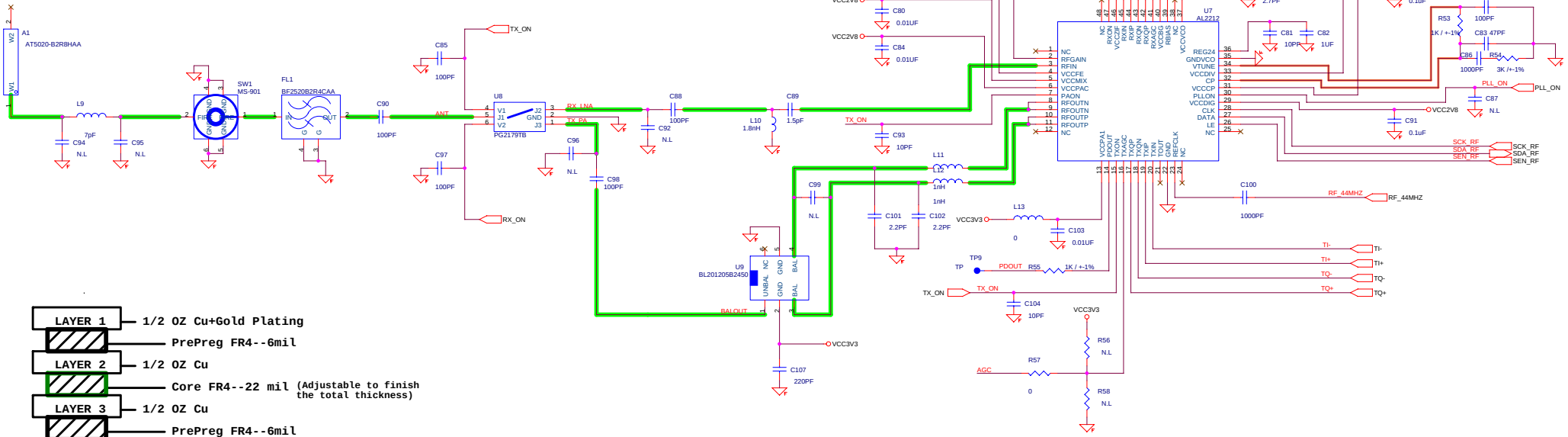
Pin/SW TRUTH TABLE

V1	V2	J1 to J2	J1 to J3
1	0	ISOLATION (OPEN)	INSERTION LOSS (CLOSED)
0	1	INSERTION LOSS (CLOSED)	ISOLATION (OPEN)



Dieclectric Constant: 4.4
Fifty-Ohm Co-Planar Waveguide: 9 mil Line Width, 10 mil Gap Width

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