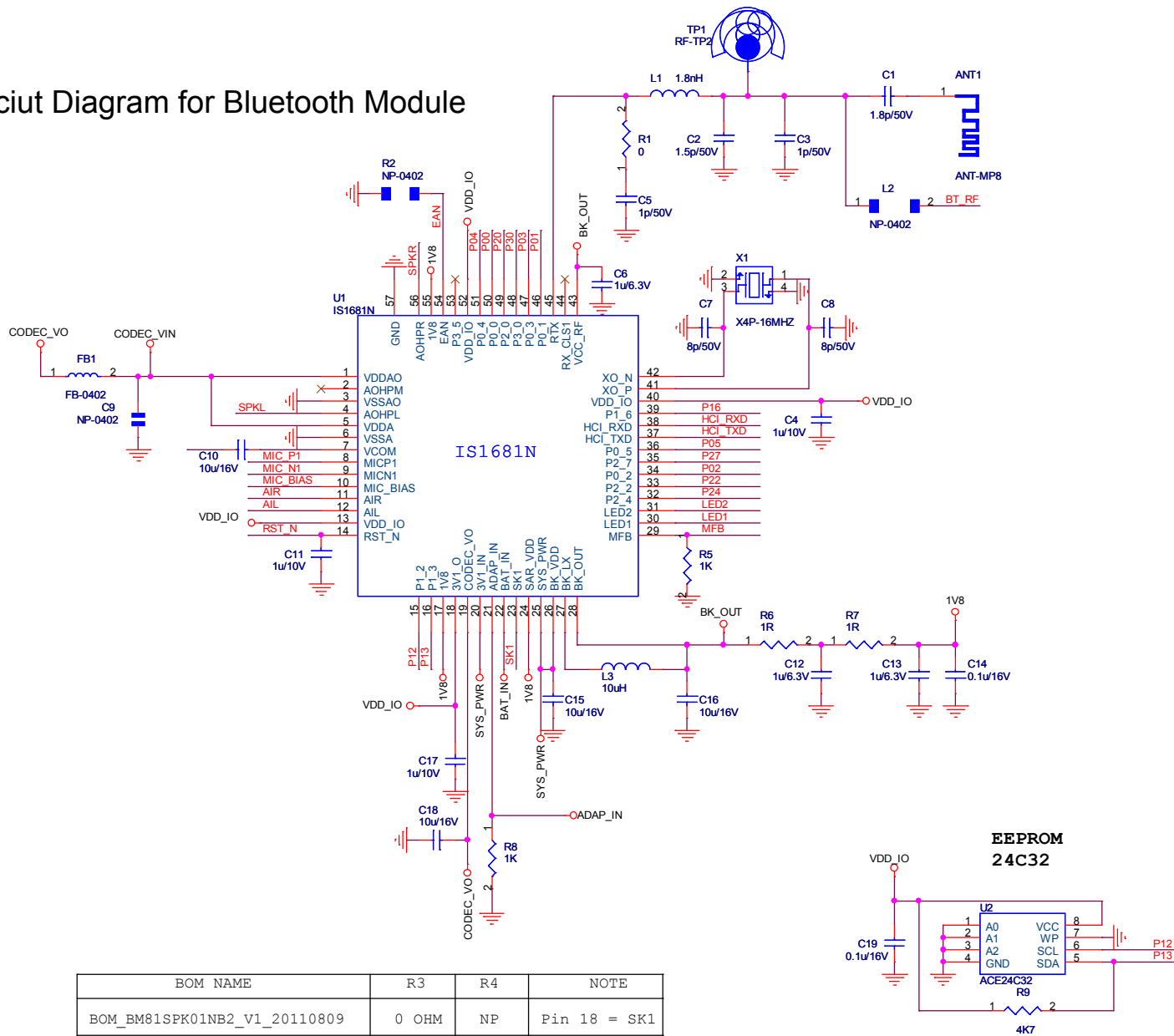
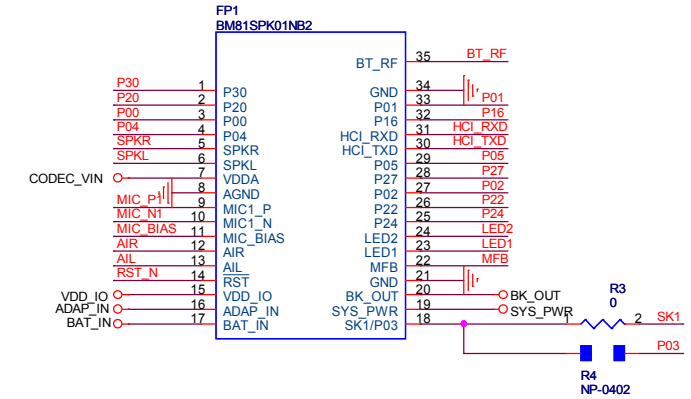


Circuit Diagram for Bluetooth Module



BOM NAME	R3	R4	NOTE
BOM_BM81SPK01NB2_V1_20110809	0 OHM	NP	Pin 18 = SK1
BOM_BM81SPK01NB3_V1_20110809	NP	0 OHM	Pin 18 = P03

PIN DEFINATION



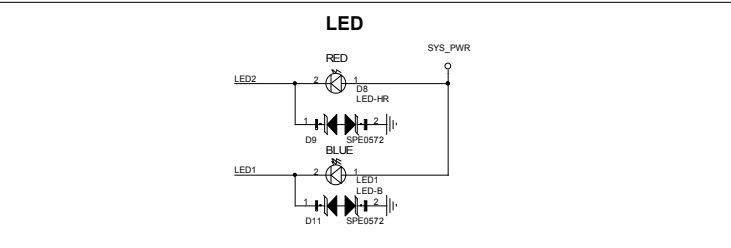
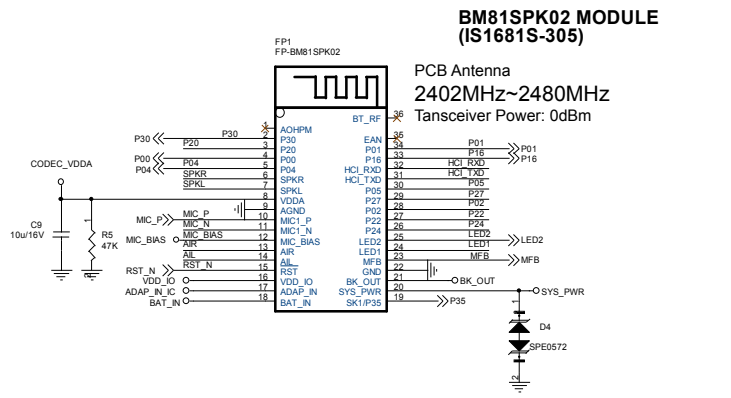
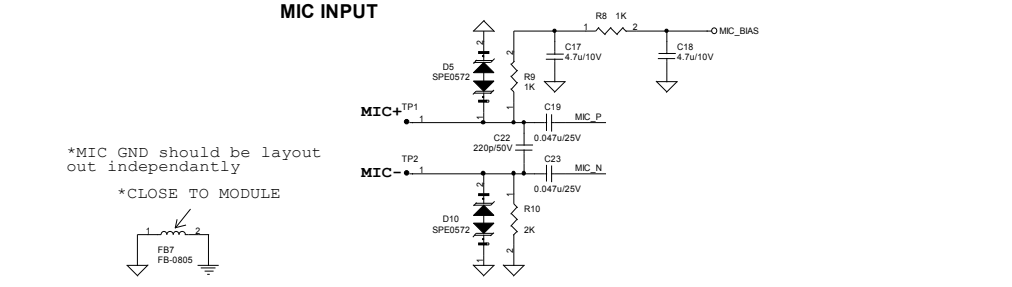
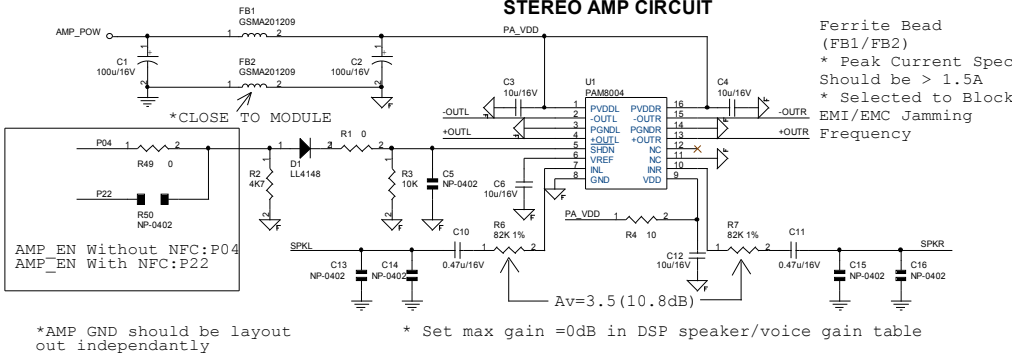
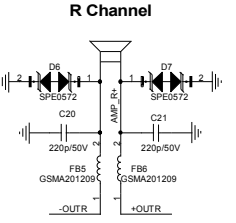
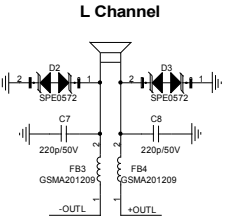
GPIO Description

P00	Slide Switch Detect/TX_IND
P01	Volume up
P02	Play/Pause
P03	RX_IND
P04	Audio AMP Enable
P05	REV
P16	Volume down
P20	System Configuration
P22	Keep alive for external LDO
P24	System Configuration
P27	FWD
P30	Line-in detect

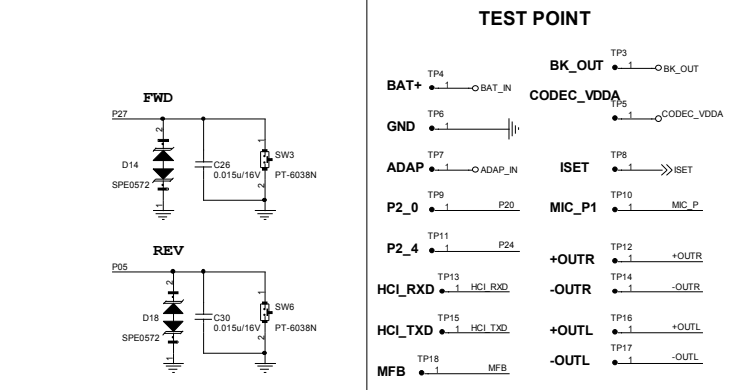
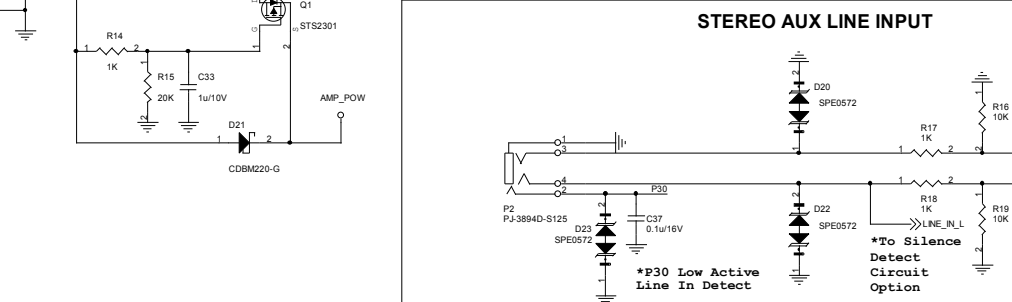
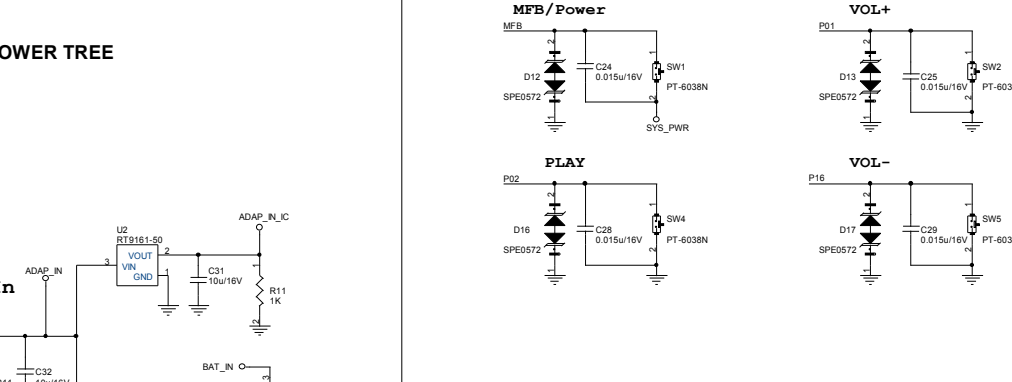
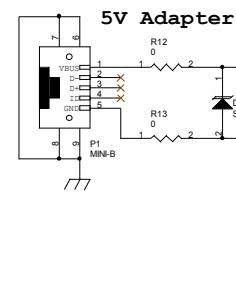
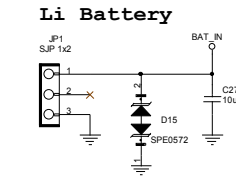
ISSC ISSC Technologies Corp.
ADD. 4F, No.8, Dusing Rd., Hsinchu Science Park,
Hsinchu City 30078, Taiwan
TEL. 886-3-5778385

Board Name		BM81SPK01NB2 / BM81SPK01NB3		P/N
Size B	Title	SCH_BM81SPK01NB2_V1_20110809 SCH_BM81SPK01NB3_V1_20110809		Rev V1
Date:	Monday, September 19, 2011	Sheet	1	of 1

SPEAKER OUTPUT PATH



POWER TREE



GPIO vs. APPLICATION FUNCTION

GPIO	APPLICATION	GPIO	APPLICATION
P22	Hi-Active Audio Amp. Enable	P02	Play/Pause
P23	Volume +	P27	Forward
P16	Volume -	P05	Reverse
P12	EEPROM_CLK	P30	Line In Detect
P13	EEPROM_DATA	P04	NFC Detect

ISSC Technologies Corp.
ADD: 4F, No.8, Dusing Rd., Hsinchu Science Park, Hsinchu City 30078, Taiwan
TEL: 886-3-5776385

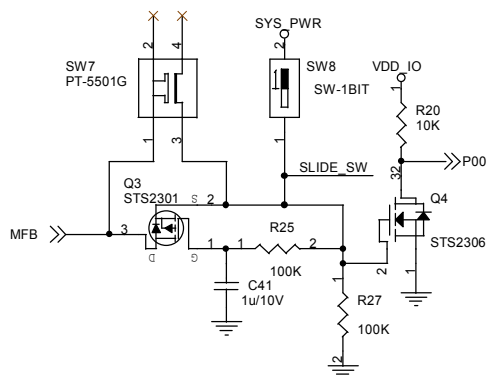
Board Name: BM81SPK02 STEREO SPEAKER PHONE (IS1681S-305)

Size: C Title: MAIN CIRCUIT

Date: Friday, September 28, 2012 Sheet: 1 of 2

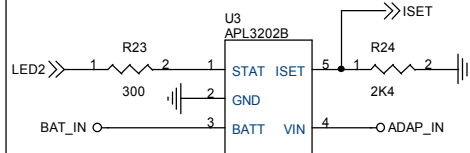
OPTIONAL CIRCUIT

SLIDE SWITCH

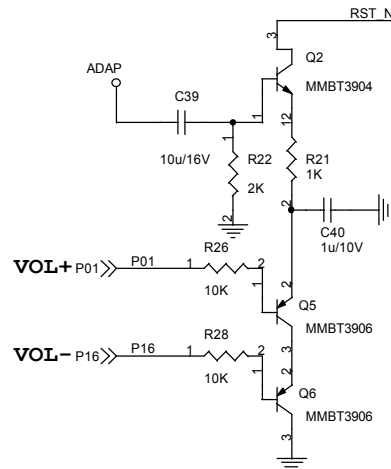


EXTERNAL CHARGER

*Charge Current Formula:
 $I_{chg} = K_{set} \times V_{set} / R_{set}$
 $K_{set} = 1000, V_{set} = 1V, R_{set} = 2.4K \Rightarrow I_{chg} = 417mA$



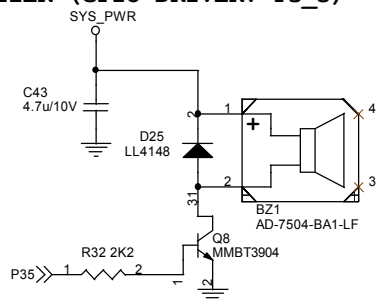
CONDITIONAL RESET CIRCUIT



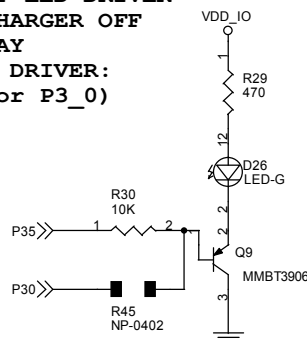
Diode option when flash type module is used



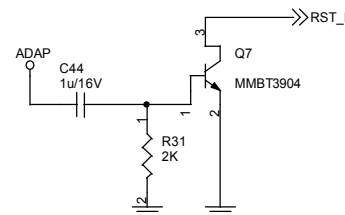
BUZZER (GPIO DRIVER: P3_5)



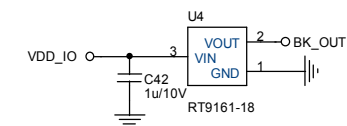
BACKUP LED DRIVER FOR CHARGER OFF DISPLAY (GPIO DRIVER: P3_5 or P3_0)



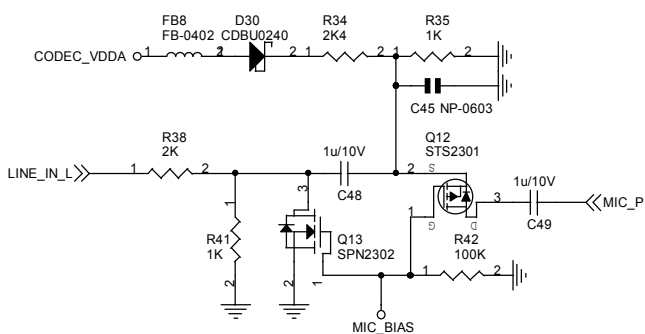
UNCONDITIONAL RESET CIRCUIT



OPTIONAL 1V8 LDO

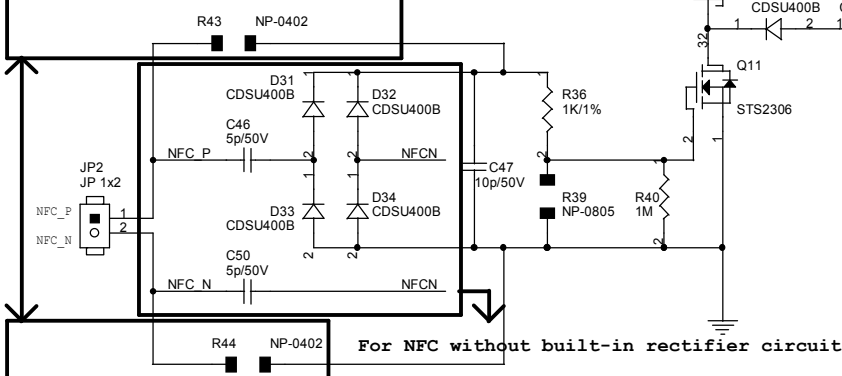


LINE INPUT SILENCE DETECT CIRCUIT



For NXP 203F NFC type, which contains rectifier circuit

NFC TRIGGER CIRCUIT



For NFC without built-in rectifier circuit

MFB Option

SLIDE SWITCH Option

ISSC Technologies Corp.	
ADD: 4F, No.8, Dusing Rd., Hsinchu Science Park, Hsinchu City 30078, Taiwan	
TEL: 886-3-5778385	
Board Name	BM81SPK02 STEREO SPEAKER PHONE (IS1681S-305)
Size B	Title
Date: Friday, September 28, 2012	Sheet 2 of 2
OPTIONAL CIRCUIT	