## REVISION HISTORY

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<th>Revision</th>
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### GPIO ASSIGNMENT

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**NOTE:**
PA21–24 and PH22–28 can be used for GPIO and others are reserved for function using.
Both Toggle NAND and TSOP NAND layout together

(1) TSOP CE Count: Chip Select Count of one TSOP NAND Flash, can be 1/2/4.
(2) Refer to the Datasheet of NAND Flash to determine VPP should be Pull-up or -down.
(3) Both Toggle NAND and TSOP NAND can be layout together.

A=NAND, B=NSC: Root from raw NAND flash
A=MC, B=QB: Root from eMMC NAND flash
WIFI

2 in 1 WIFI and BT
VCC-PG = 3.3V
VCC-WIFI = 3.3V

RF Microstrip
Z0 = 50 ohm

OPTION:
USB WIFI

VCC-WIFI = 3.3V
The first pin placed on the left lower corner of product on top view.

**Light Sensor**

Address: 0X20

**OPTION:**

2-in-1 Light Sensor and Proximity Sensor

Address: 0X23

**Sensor-TWI-SDA**

**Sensor-TWI-SCK**

**VCC-3V3**

**GROUND**
**Audio Input/Output**

**Headphone**

MIC-HBIAS with current detection function.

**NOTE:**
Not support headphone MIC recording and communication function.

**OPTION:**
Support headphone MIC recording and communication function.

**Differential Pairs**

MIC-HBIAS with current detection function.

**Analog Microphone**

The main mic.

**Option:** MIC for Surrounding Noise Cancellation

**Speaker**

**Digital Microphone (Option)**

**AllWinner Technology Co., Ltd**
BASEBAND

RF Microstrip
VCC-PB=1.8V
Z0=50 ohm

After AP Power-Down, VBAT-EXT still on,
I/Os of BB should be still kept on the right level!!
Take Care of polarity of the Control Signals....

3G-VCC-1V8
3G-VBAT

FBMJ1608HS280NT by TAIYO YUDEN or
MPZ1608S300ATAH0 by TDK is recommanded.

VCC-PB
BB-ON
VCC-PB

VCC-PB
BB-WAKE

PMZ1608S300ATAH0 by TDK is recommanded.
VCC-PB=1.8V
VBAT-PA

BB-PCM-CLK
PB1/I2S0-BCLK/PB-EINT1 C21
PB2/I2S0-LRCK/PB-EINT2 A22
PB4/I2S0-DO1/UART3-RTS/PB-EINT4 C22
PB5/I2S0-DO2/UART3-TX/TWI3-SCK/PB-EINT5 D22
PB6/I2S0-DO3/UART3-RX/TWI3-SDA/PB-EINT6 B23
PB7/I2S0-DI/PB-EINT7 D23

BB-PCM-DIN
BB-PCM-DOUT

BB-USB-DM

BB-HOST-WAKE
BB-PWRON
BB-PCM-CLK
BB-PCM-DOUT
BB-PCM-DIN
BB-PCM-SYNC

BB-UART-RX
BB-UART-TX

BB-PCM-CLK
BB-PCM-DOUT
BB-PCM-DIN
BB-PCM-SYNC

BB-USB-DM

3G-1V8
3G-VBUS-5V

ANT/PCA2442A-12
ANT/PCA2442A-5_5X2_4H1_58A
ANT2
ANT3

ANT-PCA2442A-5_5X2_4H1_58A
ANT/PCA2442A-12

BB-USB-DM

BASEBAND PW6086

3G-VBUS-5V

3G-VBUS-5V

3G-1V8
3G-1V8

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V

3G-VBUS-5V
RF Microstrip
Z0 = 50 ohm