MT8183 O1 Bring up SOP Audio

Glossary (名词解释/名詞解釋)

- Receiver (Earpiece)
  - 听筒
  - 聽筒

Receiver

- $(proj)
  - Your company's project
    - Such as MTK's turnkey solution, tb8183m1_64_bsp is $(proj)
  - 贵司的project
    - 如MTK的turnkey, tb8183m1_64_bsp即为$(proj)
  - 貴司的project
    - 如MTK的turnkey, tb8183m1_64_bsp即為$(proj)

Receiver

- 是否有Receiver (听筒)元件？

- 目前tablet部份, 默认没有earpiece这项硬件元件，因此造成一些CTS, factory mode使用上的误解及不便，客户可以在device/mediatek/ic -name/下进行客制化，方便开关此feature

- 具体的路径：device/mediatek/**folder**/audio_policy_config/audio_policy_configuration.xml

if there is no Earpiece in the project, remove the sections of earpiece port and route from audio policy config

<devicePort tagName="Earpiece" type="AUDIO_DEVICE_OUT_EARPIECE" role="sink"> ...
</devicePort>

<route type="mix" sink="Earpiece" ... />

Digital Microphone

- 若贵司的Main_MIC（PMIC）是接到DMIC的话, 请开启 Digital MIC configuration
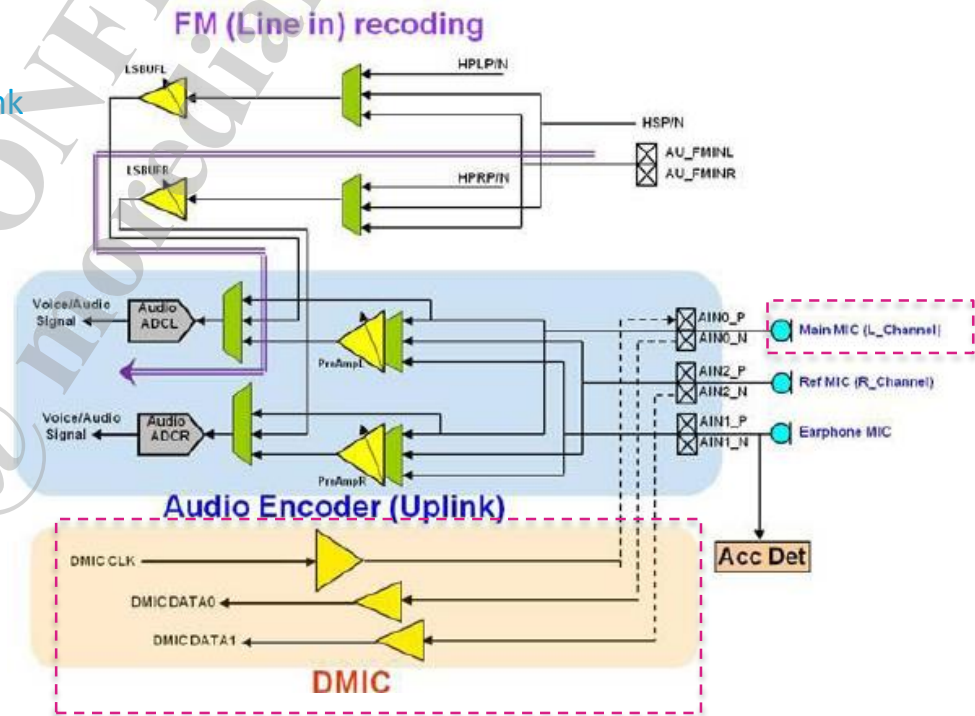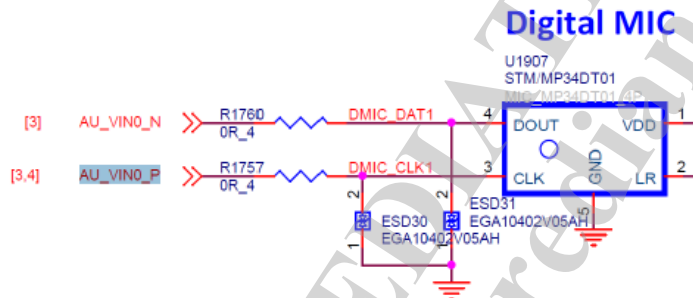
@/alps/device/mediatek/ $(proj)/ ProjectConfig.mk
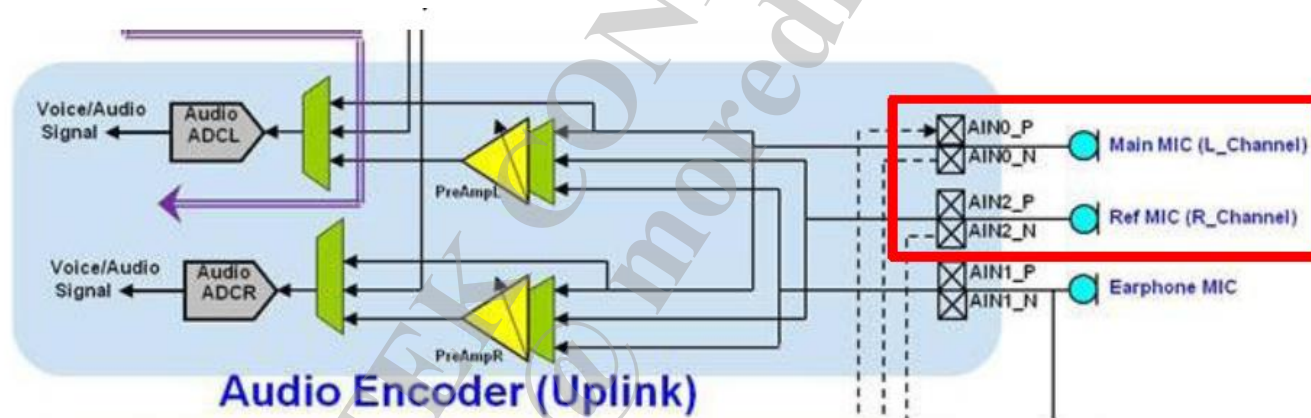MTK_DIGITAL_MIC_SUPPORT = yes

注意：
Digital Mic. support Fs <=32k
Analog Mic. support Fs <=48k

Dual Microphone

- 当平台使用到2个麦克风时, 要打开Dual Mic configuration

  @/alps/device/mediatek/ $(proj)/ ProjectConfig.mk

  MTK_DUAL_MIC_SUPPORT = yes

- Main Mic.接AIN0, Ref Mic.接AIN2

- 如需要使用 MTK的Dual Mic Noise Reduction (DMNR), 必须 follow MTK design guide

  - Visit DCC: 2-mic NR ME design note_tablet_rev1.pptx

When SPK use External AMP from HP

- 当使用外接功放来推喇叭时，需注意以下几件事
  - 请定义#define USING_EXTAMP_HP (下列的Header)

    alps/vendor/mediatek/proprietary/custom/ $(proj)/ hal/audioflinger/audio/audio_custom_exp.h
  - 若没有使用到 External AMP, 请务必把这个 define 关掉

当平台有**2**个**Speaker**

- 在以下path加入以下的宏
  alps/vendor/mediatek/proprietary/custom/ $(proj)/ hal/audioflinger/audio audio_custom_exp.h
  - **#define ENABLE_STEREO_SPEAKER**

everyday genius