## 一、适用范围

本 sdk 适用于 realtek 8710b。

由于 SDK 使用 GCC 编译,因此需要搭配芯片厂家提供的 GCC 开发包进行使用。

### 二、配置与修改

基于芯片厂家提供的 SDK 需要进行以下修改

#### mebedtls 配置

路径: component\common\network\ssl\mbedtls-2.4.0\include\mbedtls\config\_rsa.h 中

使能以下宏定义

#define MBEDTLS\_SSL\_ALPN

修改 SSL 的 buffer

#define MBEDTLS SSL MAX CONTENT LEN

(4096+1024)

### RTOS 堆栈修改

如果使用雅观海外云业务, 需要增大堆栈空间

FreeRTOSConfig.h 中

#define configTOTAL HEAP SIZE ((size t)(130 \* 1024))

## platform\_opts.h 修改

platform opts.h 中选择 mebedtls, 并且屏蔽原厂的 simple config

#define CONFIG\_USE\_POLARSSL 0

#define CONFIG\_USE\_MBEDTLS 1

#define CONFIG\_INCLUDE\_SIMPLE\_CONFIG\_0

#### 修改 makefile

屏蔽#network polarssl polarssl 部分

```
#network mbedtls 2.4.0
```

```
SRC C += ../../../component/common/network/ssl/mbedtls-2.4.0/library/aes.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/aesni.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/asn1parse.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/arc4.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/base64.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/bignum.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/blowfish.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/camellia.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/ccm.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/certs.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/cipher.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/cipher wrap.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/ctr drbg.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/debug.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/entropy.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/entropy poll.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/error.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/gcm.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/havege.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/md.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/md wrap.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/md2.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/md4.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/md5.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/memory buffer alloc.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/net sockets.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/oid.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/padlock.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/pem.c
```

```
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/pk.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/pk wrap.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/pkcs11.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/pkcs12.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/pkcs5.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/pkparse.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/platform.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/ripemd160.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/rsa.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/sha1.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/sha256.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/sha512.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/ssl cache.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/ssl ciphersuites.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/ssl cli.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/ssl srv.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/ssl tls.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/threading.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/timing.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/version.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/version features.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/x509.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/x509 create.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/x509 crl.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/x509 crt.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/x509 csr.c
SRC C += ../../.component/common/network/ssl/mbedtls-2.4.0/library/x509write crt.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/x509write csr.c
SRC C += ../../component/common/network/ssl/mbedtls-2.4.0/library/xtea.c
增加以下库路径:
LIBFLAGS =
LIBFLAGS += -L.../../component/soc/realtek/8711b/misc/bsp/lib/common/GCC/ -l platform -
1 wlan -1 wps -1 p2p -1 rtlstd
LIBFLAGS += -L../akeeta/ -l akeeta -lm -lc -lnosys -lgcc
mp: LIBFLAGS += -L../../.component/soc/realtek/8711b/misc/bsp/lib/common/GCC/ -l platform
```

-l wlan mp -l wps -l p2p -l rtlstd

LIBFLAGS += -L../akeeta/ -l akeeta -lm -lc -lnosys -lgcc

# 三 、注意事项

雅观的 SDK 由于会保存路由器的配置信息以及证书信息,会使用芯片的 flash。

以 8710bx 为例:

SDK 会使用 0x080F5000 地址开始的 64K 作为 SDK 内部使用。

