

1. Scope of application

This SDK is applicable to the ESWIN TR6260 series.

Manufacturer's SDK version: TR6260V1.1.1B01P02

Use project: standalone

The manufacturer's own partition table is as follows:

1M Flash				
Partition Name	Start Address	End Address	Size (KB)	notes
boot	0	5FFF	24	固定分区，不能修改大小和偏移。
partition	6000	6FFF	4	
tr6260_1	7000	B5FFF	700	
tr6260_2	B6000	F6FFF	260	
nv_data_cert	F7000	F7FFF	4	
nv_data_ca	F8000	F8FFF	4	
nv_data_key	F9000	F9FFF	4	
nv_rw_backup	FA000	FAFFF	4	
nv_rw	FB000	FDFFF	12	
nv_ro(amt)	FF000	FFFFFF	4	固定分区，不能修改大小和偏移。
			1020	

2. Configuration and modification

OTA Modifications

Yaguan SDK has built-in OTA function. In order to adapt to the OTA function, the following changes need to be made:

Add the following API in tr6260\platform\otaHal\otaDiffHal.c

```
unsigned int get_OTA_write_data_addr(void)
```

```
{
    return g_otaInfo.s_addr;
}
```

Makefile modifications

Makefile.standalone_diff

Modify as follows:

The following modifications need to be made based on the SDK provided by the chip manufacturer:

1. Add the compiled Yaguan library file compilation path;

```

DEFINE += -DUSE_WIFI_LIB
#//WIFI
WIFI_LIBS := $(TOPDIR)/lib/libwifi.a
WIFI_LIBS += $(APP_PATH)/akeeta_tr6260/akeeta/libyg_tr6260.a
DEFINE += -DINCLUDE_WPA_SUPP -DHMAC_ADDR_STANDALONE="\ 00:91:19:10:22:21\" -DENABLE_PRE_WPAS_CONFIG_FILE
ifneq ($(findstring USE_WIFI_LIB,$(DEFINE)), )
include $(WIFI_PATH)/wifi_lib.mk
else
include $(WIFI_PATH)/wifi.mk
endif

```

2. Add elegant open source compiled files;

```

EXAMPLE_ROOT = $(APP_PATH)/akeeta_tr6260 EXAMPLE_PATH =
$(shell find $(EXAMPLE_ROOT)/. -type d)
INCLUDE += $(addprefix -I,$(EXAMPLE_PATH))
VPATH += $(EXAMPLE_PATH)
CSRCS += ya_example.c CSRCS
+= ya_outlet_example.c CSRCS +=
ya_hal_button.c CSRCS += ya_hal_gpio.c
CSRCS += ya_hal_pwm.c CSRCS
+= ya_hal_uart.c

```

Optional configuration options

Optional configuration options can be used to modify some configuration options to get more stack space when space is insufficient

Disabling SNTP in the Makefile can further save space

```
#DEFINE += -DLWIP_SNTP
```

```
tr6260\platform\mbedtls\port\include\mbedtls\default_config.h
```

```

#define CONFIG_MBEDTLS_SSL_MAX_CONTENT_LEN (8*1024) #if (CONFIG_AT_COMMAND
== 1) #define CONFIG_MBEDTLS_SSL_IN_CONTENT_LEN
16384 #define CONFIG_MBEDTLS_SSL_OUT_CONTENT_LEN 4096

```

```
#else
```

```
#define CONFIG_MBEDTLS_SSL_IN_CONTENT_LEN (8*1024) #define
```

```
CONFIG_MBEDTLS_SSL_OUT_CONTENT_LEN (6*1024) #endif
```

3. Notes

The elegant SDK will use the chip's flash to save the router's configuration information and certificate information.

The SDK will use the 64K starting from address 0xA6000 for internal use.