

USB TI CC2531

File name	Description
Application	
np_main.c	Application main entry routine. This module initializes OSAL tasks.
rcn_config.c	Network layer configuration file. The file contains global variables with initial values which are used as configuration parameters by RemoTI network layer. The configuration parameters are explained in chapter 10.
zid_dongle.c	Application to enable initializing and pairing without any host controlling the dongle; i.e. the initialization and pairing is done with the two buttons on the dongle.
zid_proxy.c	Handles the proxy functionality of the ZID Adaptor.
zid_usb.c	This file has the function which populates the descriptors based on the information gathered in the configuration phase. It is used by zid_proxy.c.
zid_app_app_helper.c	ZID Adaptor application helper module. Used to provide a ZID Adaptor application with helper functions to operate on ZID profile data.
OnBoard.c	Implements the Onboard_soft_reset function called by the macro HAL_SYSTEM_RESET().

HAL / USB ZID class specific modules	
usb_zid_class_requests.c	USB class request handler specific to USB HID class
usb_zid.c	USB HID class specific application support module, such as initialization routine and polling routine, which are used by hal_drivers.c module. It also contains keyboard and mouse event handler functions but they are not in use by RemoTI ZID dongle application.
usb_zid_descriptor.c	USB descriptors specific to RemoTI ZID dongle
usb_zid_hooks.c	hook functions for various USB request processing, specific to USB HID class
usb_zid_reports.c	Library of HID report generation functions. Only subset of the reports are used by USB HID dongle application.
HAL / USB generic firmware library for CC2531	
usb_board_config.h	Collection of macros abstracting the hardware details for USB control.
usb_framework.c	Handles the USB setup packets, initializes the firmware and controls the reset handler.
usb_interrupt.c	The USB interrupt initialization routine and the USB interrupt service routine
usb_suspend.c	USB suspend mode related subroutines.
usb_descriptor_parser.c	Parser for USB descriptor structures
usb_standard_request.c	Handlers for USB standard requests

HAL	
hal_assert.c	HAL assertion library
hal_drivers.c	Entry point for congregation of HAL drivers, such as initialization for all HAL drivers, HAL task, as an OSAL task, entry point (event

	handler) and polling entry point.
hal_rpc.h	Remote procedure call enumerations
hal_adc.c	ADC device driver
hal_aes.c	AES device driver
hal_board_cfg.h	RemoTI hardware platform specific configuration parameters and macros used by HAL. Application may also use HAL feature flags (HAL_KEY, HAL_LED, etc).
hal_ccm.c	CCM implementation using AES device driver
hal_dma.c	DMA device driver
hal_key.c	Key switch driver (Not currently in use, excluded from build)
hal_led.c	LED driver (not in use)
hal_sleep.c	Sleep mode (PM0 and PM1) control implementation.
hal_flash.c	Flash device driver
hal_startup.c	Startup code to be run prior to calling the main loop
hal_uart.c	UART device driver
hal_vddmon.c	VDD monitoring driver

Libraries

rcnsuper-CC253x-banked.lib	RemoTI network layer library built for banked code model.
OSAL	
OSAL.c	OSAL implementation for messaging and main event handling loop
OSAL_Clock.c	OSAL clock tick implementation
OSAL_Memory.c	OSAL heap implementation
OSAL_PwrMgr.c	OSAL power management scheme implementation
OSAL_Timers.c	OSAL timer implementation
osal_snv.c	OSAL Simplified Non-Volatile memory manager. This has better code size optimization than OSAL_Nv.c module.
osal_snv_wrapper.c	OSAL Simplified Non-Volatile memory manager interface wrapper module to be used with OSAL_Nv.c module
OSAL_Math.s51	OSAL optimized math assembly function
RPC	
npi.c	Network processor interface module. This module includes either npi_uart.c or npi_spi.c file depending on configuration. By default, npi_uart.c is included.
rcns.c	RemoTI network layer surrogate module. This module is called by RTI surrogate module and it serializes and de-serializes RemoTI network layer function call interfaces.

PROFILES/GDP

rti.c	RemoTI application framework implementation
rti_testmode.c	RemoTI test mode API function implementation
gdp.c	Implements the GDP specific handling
zid_adaptor.c	Implements a ZID Profile Adaptor
zid_common.c	Common definitions for a ZID Profile Device
zid_class_device	Definitions for the ZID HID class device