

BT SDK 1.2 Release Code Examples

The code examples listed below are available on GitHub. Some of them are installed by the BT SDK.

Apps	Description	Location	Platform
Demo			
BLE_Mesh_OnOffSwitch	Emulate mesh power controls using ClientControl utility	Installed & GitHub	CYBT-213043-MESH Kit, CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02
BLE_Mesh_LightDimmable	Emulate mesh light using ClientControl utility	Installed & GitHub	CYBT-213043-MESH Kit, CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02
BLE_Mesh_Dimmer	Emulate mesh light controls using ClientControl utility	Installed & GitHub	CYBT-213043-MESH Kit, CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02
BLE_Mesh_SensorTemperature	Emulate mesh Temperature Sensor using ClientControl utility	Installed & GitHub	CYBT-213043-MESH Kit, CYW920819EVB-02, CYW920820EVB-02

BLE_Mesh_LightSmart	Emulate smart light	GitHub	CYBT-213043-MESH Kit, CYW920819EVB-02, CYW920820EVB-02
BLE_Mesh_SensorMotion	Emulate Motion Sensor	GitHub	CYBT-213043-MESH Kit, CYW920819EVB-02, CYW920820EVB-02
BLE_Mesh_LowPowerLED	Emulate Low Power LED	GitHub	CYBT-213043-MESH Kit, CYW920819EVB-02, CYW920820EVB-02
BLE_Beacon	Beacon app for Edgestone and iBeacon	Installed & GitHub	CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02, CYW920721B2EVK-01
BLE_EnvironmentSensingTemperature	Environmental Sensing app using Environmental Sensing Service (ESS)	Installed & GitHub	CYW920819EVB-02, CYW920820EVB-02
Watch	Watch reference app that demonstrates audio source, AV remote control, Apple media (AMS) and Apple notification services (ANCS)	Installed & GitHub	CYW920819EVB-02, CYW920820EVB-02, CYW920721B2EVK-01

EmptyWicedBluetooth	Starter bare bone app provided as template	Installed & GitHub	CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02, CYW920721B2EVK-01
hello sensor	Sample peripheral app	Installed & GitHub	CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02, CYW920721B2EVK-01
hello client	Sample central app	Installed & GitHub	CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02, CYW920721B2EVK-01
ble_keyboard	Sample application for BLE keyboard	GitHub	CYW920819EVB-02, CYW920820EVB-02
ble_mouse	Sample application for BLE mouse	GitHub	CYW920819EVB-02, CYW920820EVB-02
ble_remote	Sample application for BLE remote	GitHub	CYW920819EVB-02, CYW920820EVB-02
audio gateway	Audio Gateway sample app	Installed & GitHub	CYW920721B2EVK-01

pbap client	Phonebook Client sample app	Installed & GitHub	CYW920721B2EVK-01
low power sensor	Low power sensor app	GitHub	CYW920721B2EVK-01
Snip			
bac/bas	Battery client and server app	GitHub	CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02, CYW920721B2EVK-01
anc/ans	Alert Notification client and server	GitHub	CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02, CYW920721B2EVK-01
hrc/hrs	Heart rate client and server app	GitHub	CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02, CYW920721B2EVK-01
le_coc	Demonstrate LE connection oriented channels.	GitHub	CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02, CYW920721B2EVK-01

halapps	Apps that demonstrate use of HAL APIs to use peripherals - ADC	GitHub	CYW920819EVB-02, CYW920820EVB-02, CYBT-213043-EVAL
halapps	Apps that demonstrate use of HAL APIs to use peripherals - SPI Slave, Dual SPI master,	GitHub	CYW920819EVB-02, CYW920820EVB-02,
halapps	Apps that demonstrate use of HAL APIs to use peripherals - GPIO, PUART, PWM	GitHub	CYW920819EVB-02, CYW920820EVB-02, CYBT-213043-EVAL, CYW920721B2EVK-01
OTA	Sample demonstrates how to implement secure over the air FW upgrade over BLE	GitHub	CYW920819EVB-02, CYW920820EVB-02, CYW920721B2EVK-01
low power	Controlled Low power example	GitHub	CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02
Throughput	multi lever throughput demo	GitHub	CYW920819EVB-02, CYW920820EVB-02

mesh	Sample apps included for power on/off, level, battery, light control, transition location, property, time, scene, scheduler, provision, and sensor (client & server).	GitHub	CYBT-213043-MESH Kit, CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02
find me	Find Me profile example	GitHub	CYW920819EVB-02, CYW920820EVB-02
spp	SPP example	GitHub	CYW920819EVB-02, CYBT-213043-EVAL, CYW920820EVB-02, CYW920721B2EVK-01
Host/MCU			
Client Control	Host/MCU sample application with UI for controlling various BT applications over WICED HCI interface	Installed	Windows, OSX, Linux
Mesh Client Control	Host/MCU app for controlling embedded mesh apps (ClientControl and QtClientControl)	Installed	Windows, Linux
Utilities			

BT Spy	Trace utility to view protocol and generic trace messages from the stack, profiles and app.	Installed	Windows, OSX, Linux
WMBT	Manufacturing test tool to test and verify the RF performance of the BT devices in WICED HCI mode.	Installed	Windows, OSX, Linux
Peer Apps			
Mesh apps	Mesh peer apps on Android, Windows and iOS	Installed, GitHub	Android , Windows, IOS
OTA	peer apps for OTA	Installed	Windows, Android

The following middleware (libraries) are included in BT SDK1.2. All libraries are installed with BT SDK.

Middleware	Description
<i>Grouping:</i>	<i>Bluetooth Low Energy Profile Libraries</i>
bat_client_lib	Battery Service Client Profile library
beacon_lib	Library providing common beacon API support for both iBeacon and Eddystone

hidd_lib	BLE HID Device library
hrc_lib	Heart Rate Client library.
hrs_lib	Heart Rate Server library.
anc_lib	Alert Notification Client library
ans_lib	Alert Notification Server library
<i>Grouping:</i>	<i>Bluetooth Protocol Libraries</i>
avrc_controller	AVRC Controller library
avrc_target	AVRC Target library
spp_lib	Serial Port Profile library
obex_lib	Object Exchange library
pbal_lib	Phone Book Access Client library
a2dp_sink_profile (Pro)	A2DP Sink profile library
handsfree_profile (Pro)	Hands-Free profile library
<i>Grouping</i>	<i>Hardware Libraries</i>
ambient_light_sensor_lib	Ambient Light Sensor library for Mesh kit (CYBT-213043-MESH)
pir_motion_sensor_lib	PIR library (Motion Sensor) for Mesh kit (CYBT-213043-MESH)

thermistor_ncp15xv103_lib	Library providing API implementation for NCP15XV103E03RC thermistor
thermistor_ncu15wf104_lib	Library providing API implementation for NCU15WF104F60RC thermistor
button_manager (Pro)	Button management support
led_manager (Pro)	LED management support
<i>Grouping</i>	<i>Miscellaneous</i>
fw_upgrade_lib	Over-The-Air Firmware Upgrade support. Consists of common and chip specific library components.
gatt_utils_lib	BLE GATT utilities library