

CC3100 Out of Box Application

Overview

This Application demonstrates Out of Box Experience with CC3100 Booster Pack. It highlights the following features

- Simple WLAN Connection Using Smart Config
- Easy access to CC3100 Using mDNS and HTTP Server
- Complete Information about CC3100 features and specification
- Force AP Mode


Setting up the demo

1. Mount CC3100 Booster Pack on EMUBOOST board and connect the boards to the PC for flashing the binaries
2. Flash the firmware binaries using 'CC3100-Flasher-v05'
3. Program the html pages at '<sdk-installation-directory>\examples\out_of_box\html' using the SDK's sl-programmer ('<sdk-installation-directory>\tools\sl_programmer_command_line')
 - cd <sdk-installation-directory>\examples\out_of_box\html'
 - <sdk-installation-directory>\tools\sl_programmer_command_line\sl_prog.exe -p <UART port number> -b SI_CC3100_Image_list.txt [-v]

NOTE: Post RTM, CC3100 BoosterPack shall come preloaded with these HTML pages by default

Usage

1. Connect CC3100 Booster Pack with EMUBOOST board.
2. Run TI SmartConfig Application(Install from GooglePlay or iOS App Store) on your Smartphone. If unable to download, read Force AP section
3. Plug in the USB to DC outlet or computer to power the CC3100 BP and EMUBOOST board. If plugged into computer, ignore driver warning
4. Open SmartConfig app and go to SmartConfig tab. It will show AP SSID, enter Password of your Access Point, then press Start
5. Once connection to the AP is Successful, the app notify using a Pop up. Switch to the Device tab.
6. On Device Tab, Select your CC3100 Device. It will open browser and take you to CC3100 Web page.
7. If the connection is not successful, the app will time out and point user to the Force AP Mode
8. See below pages in the Browser

 **TEXAS INSTRUMENTS**

SimpleLink™ Wi-Fi® Family

Welcome Overview About Setup Developer's Portal


Congratulations! You are now connected to the SimpleLink CC3100

The CC3100/3200 products are packed with new features that allow you to easily create Internet applications, establish a secure Wi-Fi and Internet connection and enable battery-operated devices. TI provides various kits and software tools, reference designs, sample applications, development documentation and E2E community support.

Let's get started.

CC3100

It is a perfect Wi-Fi companion to TI's MCUs with on-chip power management to boost power efficiency. The development kit is a SimpleLink BoosterPack.

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Welcome Overview About Setup Developer's Portal


The SimpleLink CC3100 device is a network processor designed to interface with any microcontroller.

The CC3100 BoosterPack is a development platform to help you design your next Wi-Fi innovation with the CC3100 device. It is a perfect companion to TI's MSP430™ LaunchPad. In addition to the LaunchPads, there is support available to mate the board with a FTDI Debug board to interface directly to a PC host using USB cable.

Wi-Fi just became easier!

LINKS: (live internet access needed – are you connected?)

-  **Getting Started**
Overview, Datasheet
-  **Hardware**
Quick Start Guide, User Guide
-  **Software**
Release notes, updates, app notes, API
-  **Other Resources**
LaunchPads and BoosterPacks
-  **Development Tools**
Simple Link Studio (SLS), tool download, SDK download

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Versions

NWP Version:	2.0.7.0
MAC Version:	31.0.0.4.2
PHY Version:	1.5.3.3
HW Version:	0x3000003

LAN


MAC Address:	78:A5:04:0F:BC:00
DHCP State:	Enabled
IP Address:	0.0.0.0
Subnet Mask:	0.0.0.0
Default Gateway:	0.0.0.0

Wi-Fi AP Parameters

Channel No:	6
SSID:	mysimplelink-0FBC00

System

System Up Time:	0 days 00:04:27
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 **TEXAS INSTRUMENTS**

SimpleLink™ Wi-Fi® Family

Welcome Overview About **Setup** Developer's Portal

- Access Point Configuration
- WiFi Connectivity Profiles Settings
- Device Configuration

Access Point Configuration

Channel:	<input type="text" value="6"/> Range: 1..13
SSID:	<input type="text" value="mysimplelink-0FBC00"/>
Security Type:	<input checked="" type="radio"/> Open <input type="radio"/> WEP <input type="radio"/> WPA
Password:	<input type="text"/>

Apply

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The SimpleLink Wi-Fi family also allows the user to set-up different profiles by simply filling out the settings below.

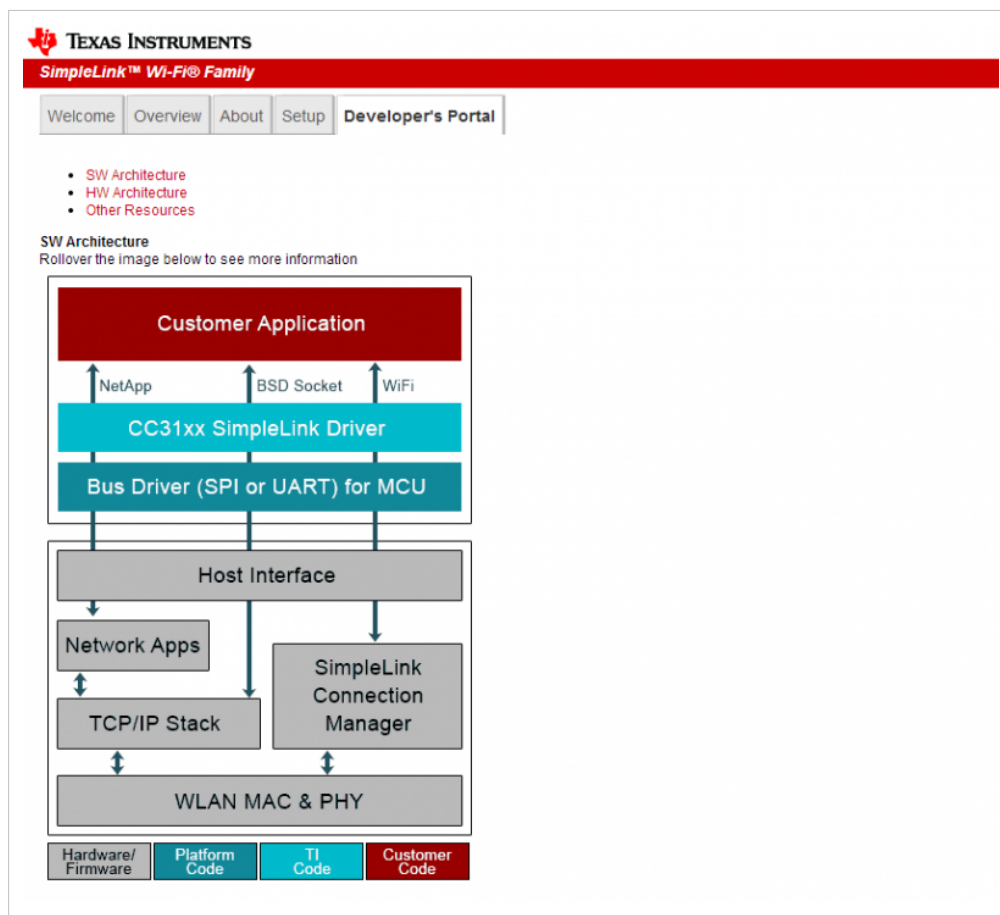
WiFi Connectivity Profiles Settings

Add Profile

SSID:	<input type="text"/>
Security Type:	<input checked="" type="radio"/> Open <input type="radio"/> WEP <input type="radio"/> WPA1 <input type="radio"/> WPA2
Security Key:	<input type="text"/> Hexadecimal digits - any combination of 0-9, a-f and A-F
Profile Priority:	<input type="text"/> Enter a value 0-7 (7 = highest)

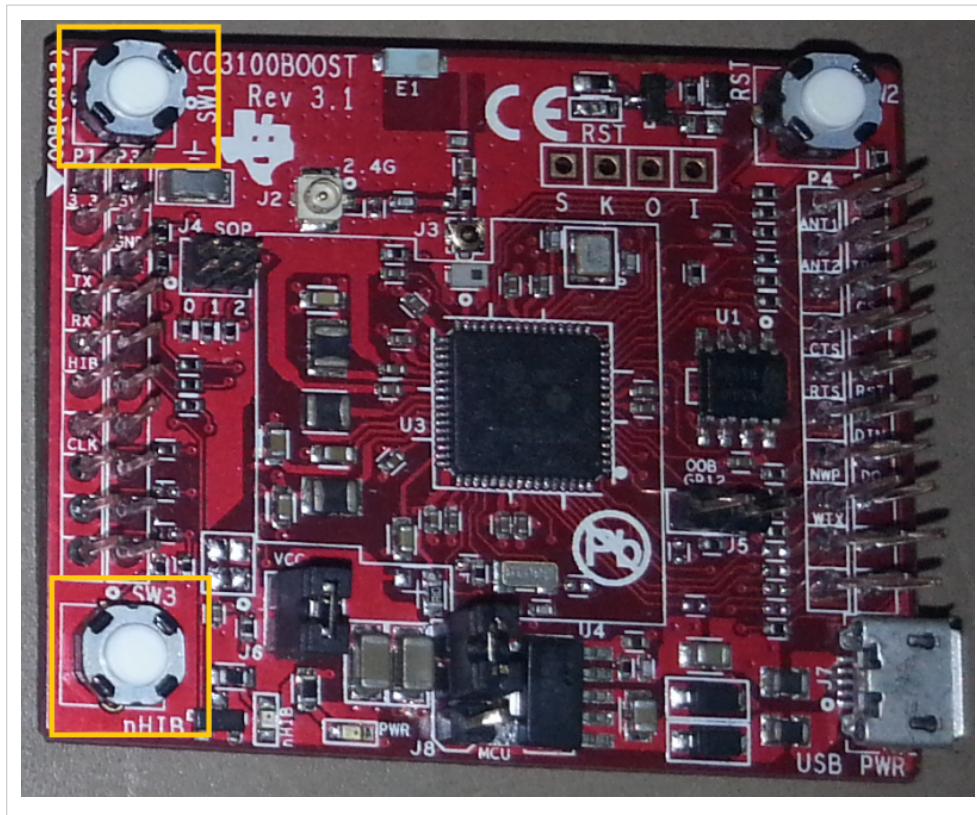
Add

The new Profile will take affect only after reset



Force AP

User can start the CC3100 device into an Access Point by pressing the **SW1** button on booster pack. Press the **SW1** button and reset the device using **nHIB (SW3)** button and then release the **SW1** button.



CC3100 will come-up in AP mode w/ SSID name as **mysimplelink-XXXXXX** Open a web browser on the client and enter the IP of CC3100 in the address bar

Default IP address is 192.168.1.1
Alternatively, 'mysimplelink.net' can also be entered for accessing the web page

Limitations/Known Issues

1. Setup page is not working properly

Article Sources and Contributors

CC3100 Out of Box Application *Source:* <http://ap-fpdsp-swapps.dal.design.ti.com/index.php?oldid=189583> *Contributors:* A0131814, A0132173

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