CC31xx TCP Socket Application

Overview and application details

This is a sample application demonstrating how to open and use a standard TCP socket with CC3100.

Note: This wiki page is only applicable for CC3100-SDK v0.5.2 and upward releases. For documentation on older SDKs' examples, refer corresponding file in

<cc3100-sdk-installation-location>\cc3100-sdk\docs\examples\





Usage

- Connect the board to a Windows-PC and configure the terminal-program for seeing the logs [I
 CC31xx_&_CC32xx_Terminal_Setting_Wiki ^[1]] has detailed instructions for configuring the terminal-program
- Edit main.c and update the following parameters for the device to establish connection w/ the access-point

• Edit main.c and update the following parameters of the remote server

```
#define IP_ADDR 0xc0a80164
```

- Build and launch the application
- Open an Iperf TCP server listening on port PORT_NUM on Windows-PC

```
Iperf -s -p <PORT_NUM> -i 1
```

- The device will connect to **Iperf** server and send some packets
- The application also starts a TCP server on PORT_NUM
- Open an **Iperf** client on Windows, connect to CC3100 on **PORT_NUM**

```
Iperf -c <DEST_IP_ADDR> -p <PORT_NUM> -i 1
```

- The device receives the packets sent by the Iperf client and closes the socket.
- See the self explanatory logs on the terminal-program's console. On success, below message will be displayed on the terminal

```
TCP socket application — Version 1.0.0

****************************

Device is configured in default state

Device started as STATION

Connection established w/ AP and IP is acquired

Establishing connection with TCP server

Connection with TCP server established successfully

Started TCP server

TCP client connected
```

Limitations/Known Issues

None

References

 $[1] \ http://processors.wiki.ti.com/index.php/CC31xx_\&_CC32xx_Terminal_Setting$

Article Sources and Contributors

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