

CC3100 UDP Socket Application

Overview and application details

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

Note: This wiki page is only applicable for **CC3100-SDK v1.0.0** 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 - [CC31xx_&_CC32xx_Terminal_Setting_Wiki^[1]] has detailed instructions for configuring the terminal-program
- Edit 'sl_common.h' and update the following parameters for the device to establish connection w/ the access-point

```
#define SSID_NAME      "<ap_name>"
#define SEC_TYPE       <security-type>
#define PASSKEY        " "
```

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

```
#define IP_ADDR        0xc0a80164
```

- Build and launch the application
- Open an **Iperf** UDP server listening on port **PORT_NUM** on Windows-PC (the Iperf version used in testing was: iperf-2.0.9-win64 running on windows 10)

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

- The application will connect to **Iperf** server and send few dummy packets
- The application also starts a UDP server on **PORT_NUM**
- Open an **Iperf** client on Windows and connect on **PORT_NUM** (the Iperf version used in testing was: iperf-2.0.9-win64 running on windows 10)

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

- 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

Limitations/Known Issues

- The Iperf client command may need to be run more than once

References

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

Article Sources and Contributors

CC3100 UDP Socket Application *Source:* <http://processors.wiki.ti.com/index.php?oldid=233498> *Contributors:* A0131814, A0132173, A0221015, Codycooke, Malokyle, SarahP

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