


```
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
..... };
```

The RX Statistics feature is used to inspect the medium in terms of congestion, distance, validate the RF hardware, and help, using the RSSI information, positioning the CC3200 in an ideal spot.

Note: More details on **Transceiver Mode** are available at [CC3x00 Transceiver Mode Page](#)

Source Files briefly explained

- **main** - Demonstrates sending a Raw Ping packet in Tx continues and usage of different API for getting the Rx Statistics.
- **uart_logger** - To display status information over the UART

Usage

- Setup a serial communication application (HyperTerminal/TeraTerm). For detail info visit [Terminal setup](#).

On the host PC. The settings are:

- **Port:** Enumerated COM port
- **Baud rate:** 115200
- **Data:** 8 bit
- **Parity:** None
- **Stop:** 1 bit
- **Flow control:** None
- Run the reference application (Flashing the bin/IAR/CCS).
- Observe the status messages on the host over serial port to understand the sequence of operations performed by the application.

Terminal snapshot when application runs on device-

```

COM145:115200baud - Tera Term VT
File Edit Setup Control Window Help

*****
CC3200 TRANSCEIVER_MODE Application
*****

Host Driver Version: 0.0.5.1
Build Version 2.0.7.0.31.0.0.4.1.1.5.3.3
Device is configured in default state
Device started as STATION

Options:
1. Send packets.
2. Collect statistics about received packets.
Enter the option to use: 1

Enter the channel to use[1:13]: 3
Enter the number of packets to send : 10
Enter the rate: 5
Enter the Tx power[0:15]: 9
Transmitting data...
Transmission complete.
Enter "1" to restart or "0" to quit: 1

Options:
1. Send packets.
2. Collect statistics about received packets.
Enter the option to use: 2

Enter the channel to listen[1-13]:5
Press any key to start collecting statistics...
Press any key to stop and display the statistics...

=====
                        Rx Statistics
=====

The data sampled over 365841 microsec
Number of Valid Packets Received: 8
Number of Packets Received Packets with FCS: 22
Number of Packets Received Packets with PLCP: 0

Average Rssi for management packets: 0
Average Rssi for other packets: 0
Number of packets with RSSI in range -40 dbm - -47 dbm: 8
Number of packets with RSSI in range -48 dbm - -55 dbm: 0
Number of packets with RSSI in range -56 dbm - -63 dbm: 0
Number of packets with RSSI in range -64 dbm - -71 dbm: 0
Number of packets with RSSI in range -72 dbm - -79 dbm: 0
Number of packets with RSSI in range -80 dbm - -87 dbm: 0

Number of Packets with Rate 1Mbps : 0

```

Limitations/Known Issues

- TX continuous and Rx Statistics works in Wi-Fi disconnected mode only.
- The user needs to make sure the connection policy is not set to auto/fast mode.
- Since RX statistics is currently limited to disconnected mode, it is used only in transceiver mode, i.e. with raw socket.

Archives

The latest software packages are the ones which are currently supported.

Article Sources and Contributors

CC32xx Transceiver Mode *Source:* <http://processors.wiki.ti.com/index.php?oldid=184784> *Contributors:* A0221015, Codycooke, Jitgupta, Malokyle

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