

CC3100BOOSTA Operating Description:

The CC3100BOOSTA is an evaluation board for the CC3100 device from Texas Instruments. The CC3100 device is an 802.11bgn Wi-Fi network processor designed for embedded applications that use low cost and low performance microcontrollers. The CC3100BOOSTA evaluation board will only function when attached to a Texas Instrument's Tiva-C series or MSP430 value line microcontroller launchpad evaluation board or when attached to a Texas Instrument's CC31xxEMUBOOST FTDI debug board. The Texas Instrument's CC31xxEMUBOOST FTDI debug board allows the CC3100BOOSTA to interface directly to a PC host using USB cable. In this configuration the PC emulates the low cost microcontroller.

The CC3100BOOSTA evaluation board comes with a software development kit that allows the user to execute demonstration code to evaluate the Wi-Fi function and features of the CC3100 device. The user can also execute code that they have developed. The code will execute on a Texas Instrument microcontroller. The microcontroller communicates with the CC3100BOOSTA evaluation board through a serial interface. The microcontroller can issue high level commands and associated data to the CC3100BOOSTA evaluation board through the serial interface. The CC3100BOOSTA evaluation board will then translate the commands and data into the associated 802.11 bgn Wi-Fi protocol and transmit them using the on board antenna or through an optional cable connector for conductive testing. The on board antenna is an integral chip antenna with nominal directional gain of 1.9 dBi.