

**CC3200-LAUNCHXLA Operating Description:**

The CC3200-LAUNCHXLA is an evaluation board for the CC3200 device from Texas Instruments. The CC3200 device is an ARM Cortex M4 microcontroller with an on-chip 802.11bgn Wi-Fi Network Processor. The ARM Cortex M4 microcontroller is available for application development and therefore allows a single chip embedded Wi-Fi solution. The CC3200-LAUNCHXLA evaluation board allows a developer to evaluate the CC3200 and to execute application code on the on-chip microcontroller. The CC3200-LAUNCHXLA interfaces to a PC host using a USB cable.

The CC3200-LAUNCHXLA evaluation board comes with a software development kit that allows the developer to write and execute application code to evaluate the Wi-Fi function and features of the CC3200 device. The user can also execute application code written for their specific application. The code is downloaded to the CC3200-LAUNCHXLA on board flash memory through the USB cable. The on-chip microcontroller executes this code and can issue high level commands and associated data to the on-chip 802.11 bgn Wi-Fi Network processor. The on-chip 802.11 bgn Wi-Fi Network processor 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.