# CC3200 LAUNCHPAD

CC3200

- CC3200 is the industry's first single-chip Microcontroller (MCU) with built-in Wi-Fi connectivity for the LaunchPad™ ecosystem.

- Created for the Internet of Things (IoT)

- MCU integrates a high-performance ARM® Cortex®-M4 microcontroller with on-chip Wi-Fi

Key Features

- CC3200, SimpleLink Wi-Fi, internet-on-a-chip™ solution with integrated MCU

- 40-pin LaunchPad standard that leverages the BoosterPack ecosystem

- FTDI based JTAG emulation with serial port for Flash programming

- Two buttons and three LEDs for user interaction

- Backchannel universal asynchronous receiver/transmitter (UART) through USB to PC

- On-board chip antenna with U.FL for conducted testing

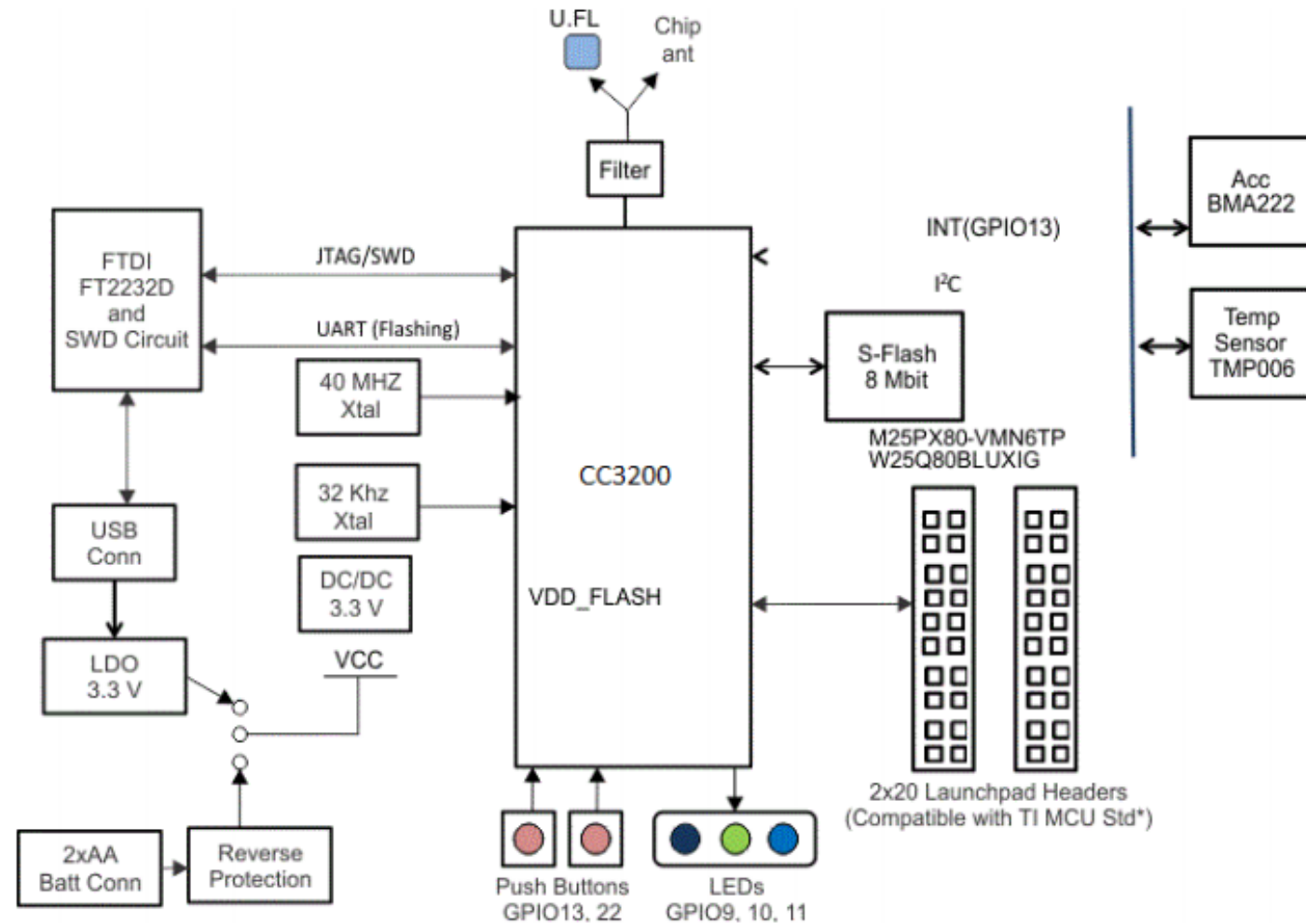# CC3200 pin diagram
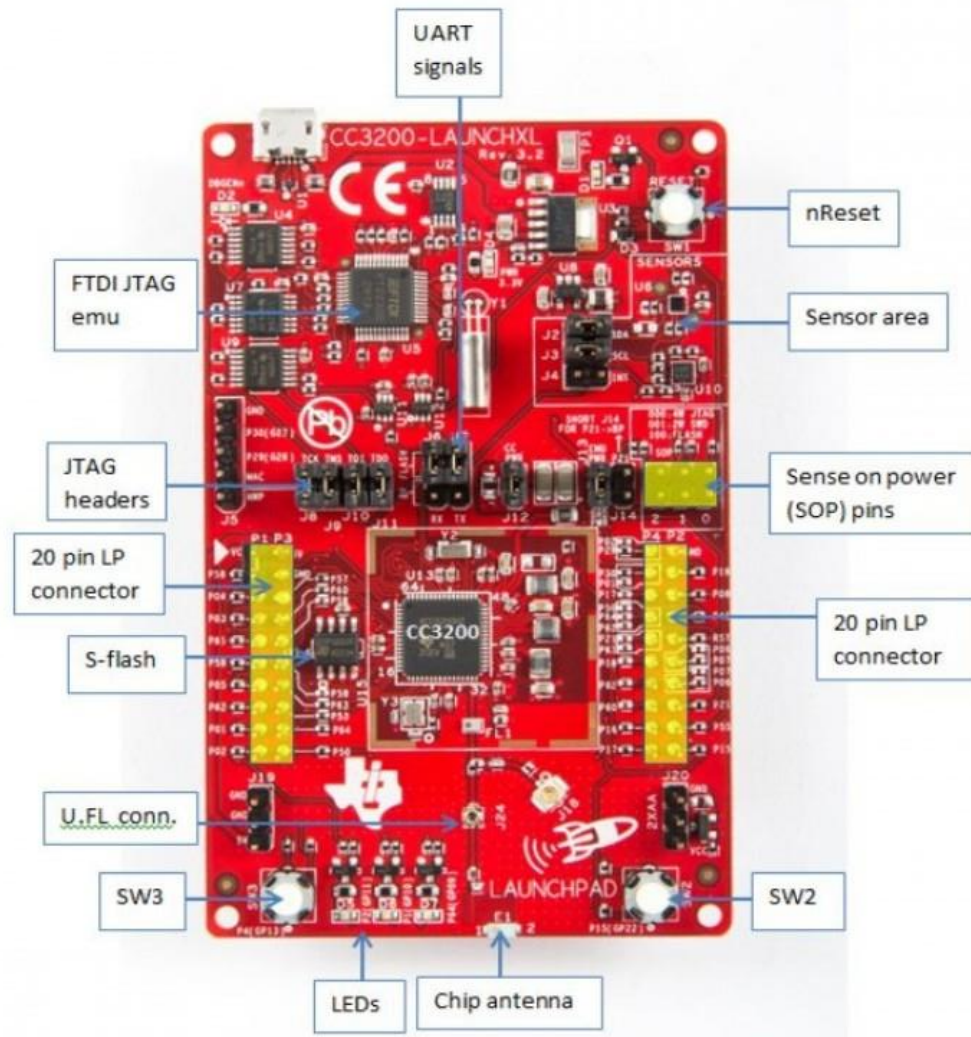
CC3200 block diagram

Figure 2. CC3200 Block Diagram

Hardware Feautres

- FTDI-based JTAG emulation with serial port for Flash programming

- Supports both 4-wire JTAG and 2-wire SWD

- Two buttons and three LEDs for user interaction

- Virtual COM port UART through USB on PC

- On-board accelerometer and temperature sensor for out-of-box demo

- Micro USB connector for power and debug connections

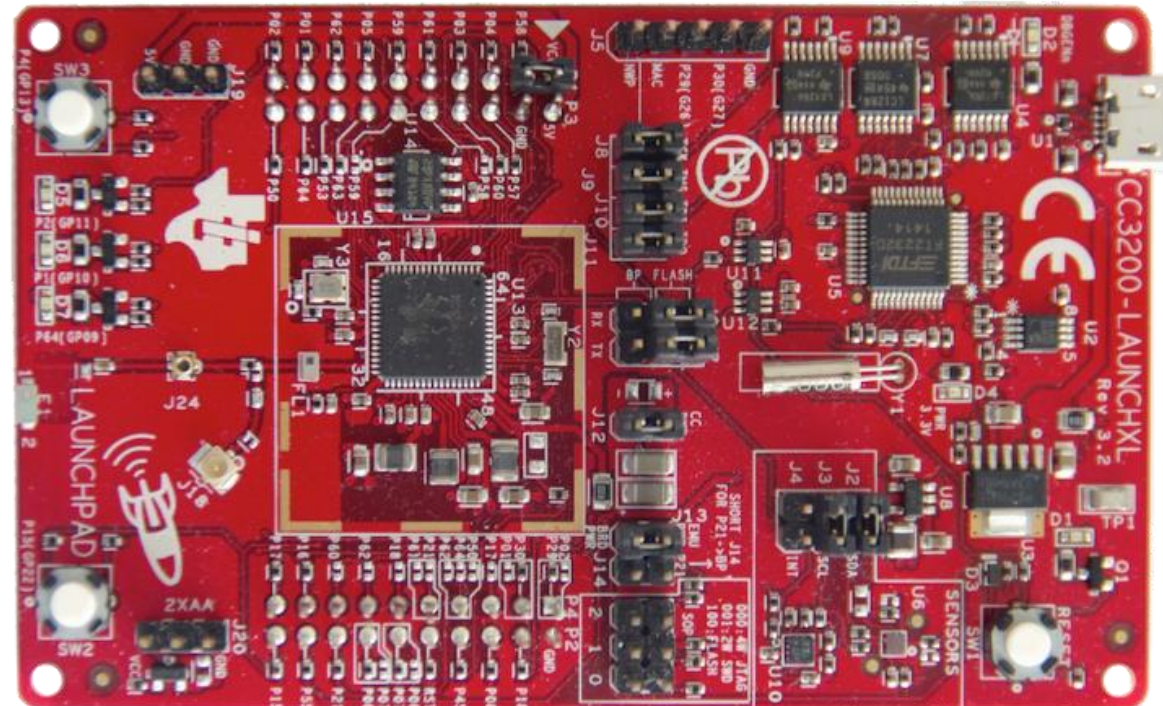- Long range transmission with highly optimized antenna

BoosterPack

- Compatible BoosterPack can be stacked on top of the LaunchPad using the 2x20 pin connectors
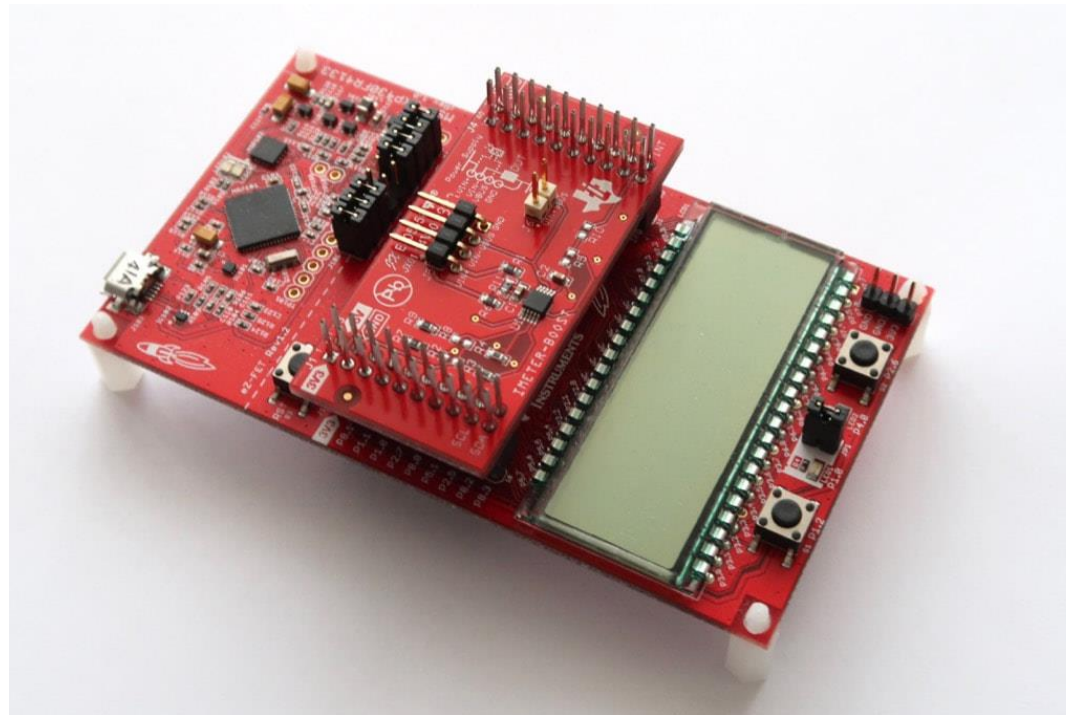
I2C Connections

- The board features an accelerometer and a temperature sensor for the out-of-box demo. These are connected to the I2C bus and can be isolated using the jumpers provided.

Sense on Power

- The CC3200 can be set to operate in three different modes based on the state of the Sense on Power (SOP) lines. These are pins 21, 34, 35 on the CC3200 device
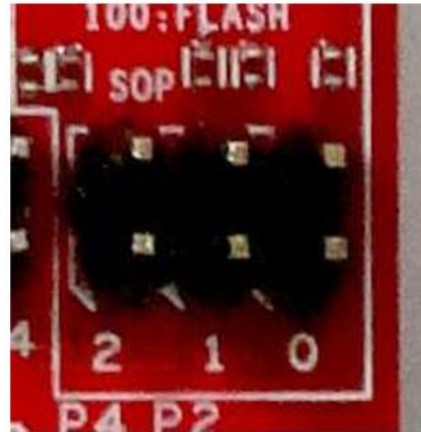

Figure 7. SOP Jumpers

Usage	Comments
SOP[2:0]	100 = Flash programming 000 = Functional mode + 4 Wire JTAG 001 = Functional mode + 2 Wire JTAG