



# FCC Application

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This application is to add a Bluetooth Low Energy radio to the Cardea SOLO model M400 Sensor. Cardea SOLO is a wearable, medical-grade, prescription device that continuously records the heart's electrical activity ("electrocardiogram"). Information collected by Cardea SOLO will help a clinician determine if the patient has an irregular heart rhythm or "arrhythmia," or other cardiac condition.

## Radio:

- Device: M400 Sensor (patient worn ECG wearable sensor)
- FCC ID Number: 2BEOW-M400
- Original Certification
- FCC 15.247
- Technical Report: Element Report-CAIN0005.0
- Certification Type: BLE 5.1 Low Energy
- Frequency Range: 2.4GHz to 2.483GHz  
40 channels, 2MHz each channel

## Implementation:

The BLE radio is designed using the Texas Instruments processor, part number CC2642R "SimpleLink™ Bluetooth® 5.1 Low Energy Wireless MCU. The MCU at radio are clocked from a 48MHz oscillator. The only external components are the antenna matching circuits and the pcb trace antenna.

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