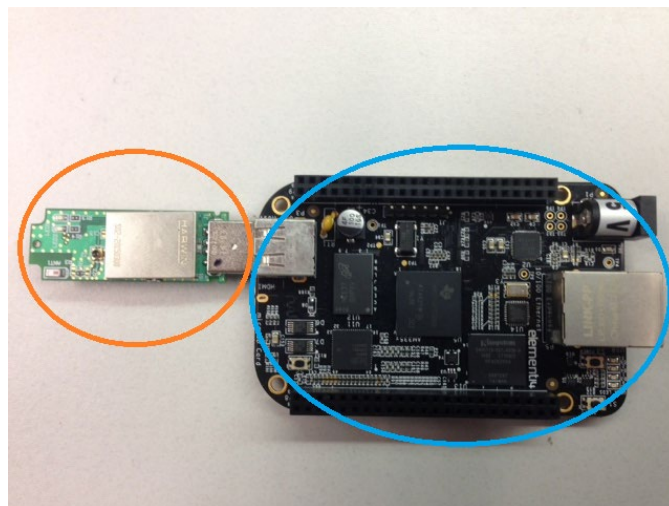**Date:** 3/31/2022

Re: **ICM BLE Adapter: FCC Cover Letter**

The Guidant Corporation (a wholly owned subsidiary of Boston Scientific Corporation doing business as Boston Scientific Cardiac Rhythm Management) ICM BLE adapter is intended for communicating with Bluetooth Low Energy devices. This system is intended for use in production and will not be used in the field.

The Bluetooth Telemetry Module or BTM refers to the USB dongle pictured below. The BTM is a Boston Scientific design based on a Nordic nRF52 BLE module. The BTM was conceived as a completely self-contained telemetry subsystem that provides CID-based communication capabilities for all Bluetooth-based Boston Scientific implantable devices.

The Bluetooth TM or BTM refers to the overall assembly of constituent hardware components. In general, the BTM consists of two main hardware components, a Beaglebone Black development kit and a USB dongle. The picture below shows the Beaglebone Black development kit along with the USB dongle. The Beaglebone Black development kit is circled in blue, while the USB dongle is circled in orange.
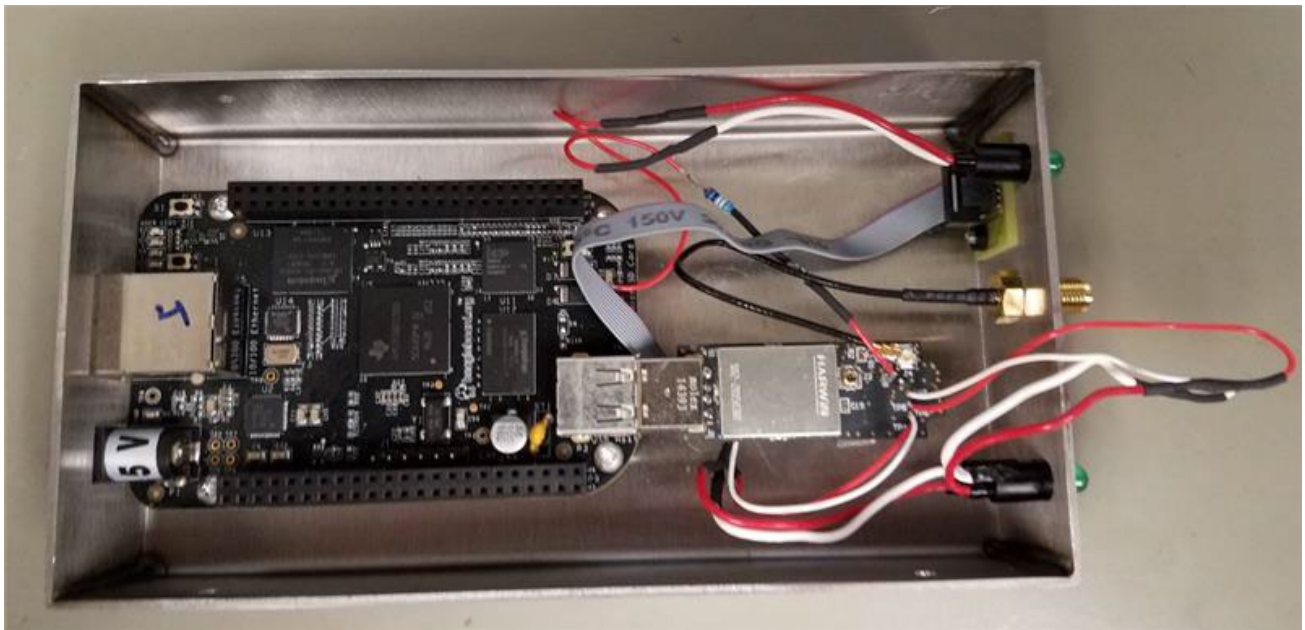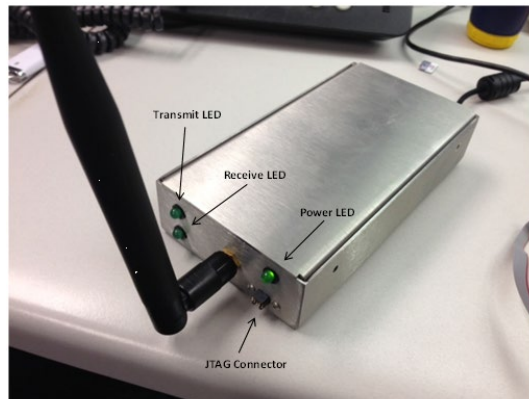

Figure 1: BTM Components

The BTM implements the Native portion of the traditional CRM software stack. In general, there are two major firmware elements resident on the BTM:

- The Nordic SoftDevice is the actual BLE stack implementation; and

- The BTM firmware is the Native BSC Bluetooth telemetry implementation combined with a Nordic software framework (SDK) that handles various aspects of the overall nRF52 platform.

Typical packaging of the complete BTM is shown in the following pictures.

Figure 2: BTM Assembly in Production Enclosure

Figure 3: Fully Assembled System with External Antenna

Figure 4: Fully Assembled System with Direct Connection for Ethernet

The BTM provides two primary connectivity options, USB tethering and Ethernet. The BTM may be tethered directly to a host computer via the USB interface. When tethered, the USB interface appears as a network device to the host computer. The BTM may also be directly connected to a network via Ethernet

This is a new product and requires an original FCC certification. The FCC ID chosen for this product is ESCCRME8209817.