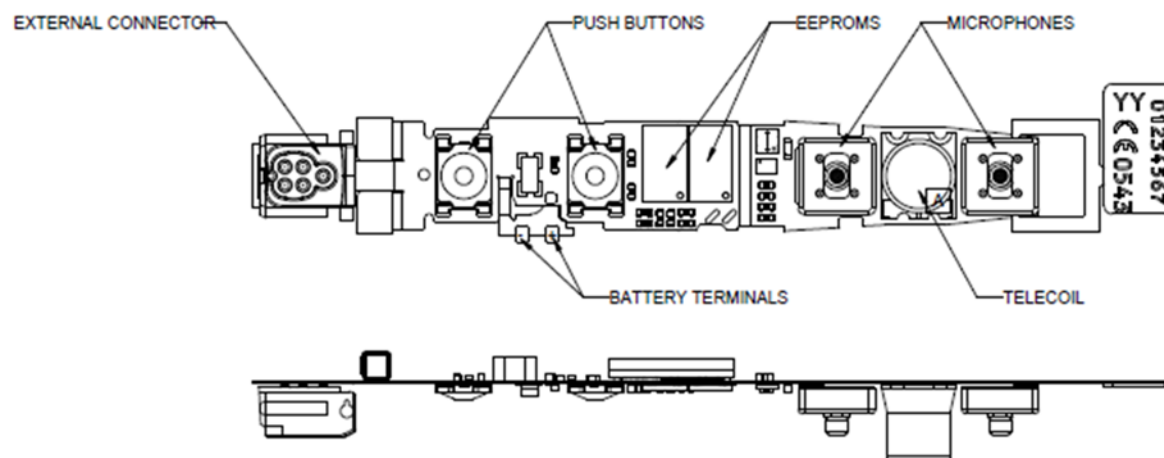


Oticon Radio Model - Quick Installation Guide

Radio Model Name: Aurora BTE power

The Aurora BTE power radio model contains two radio transceivers running at 3.84 MHz and 2.4 GHz and both implemented on a single hardware platform; the main PCB, which is shown below:



Aurora BTE power Radio Model – Main PCB – Top side

The 3.84 MHz radio is a low power, short range, inductive radio transceiver working at a single channel at 3.84 MHz using MSK modulation with 320 kbit/s data rate and connected to a small coil antenna.

The 2.4 GHz radio is a Bluetooth[®] Low Energy (BLE) transceiver using GFSK modulation with 1 Mbit/s data rate also capable of proprietary modes with higher data rates and connected to a short wire antenna.

To the left the top side of the main flex PCB of the radio model with the most important electrical and electro-mechanical components can be seen.

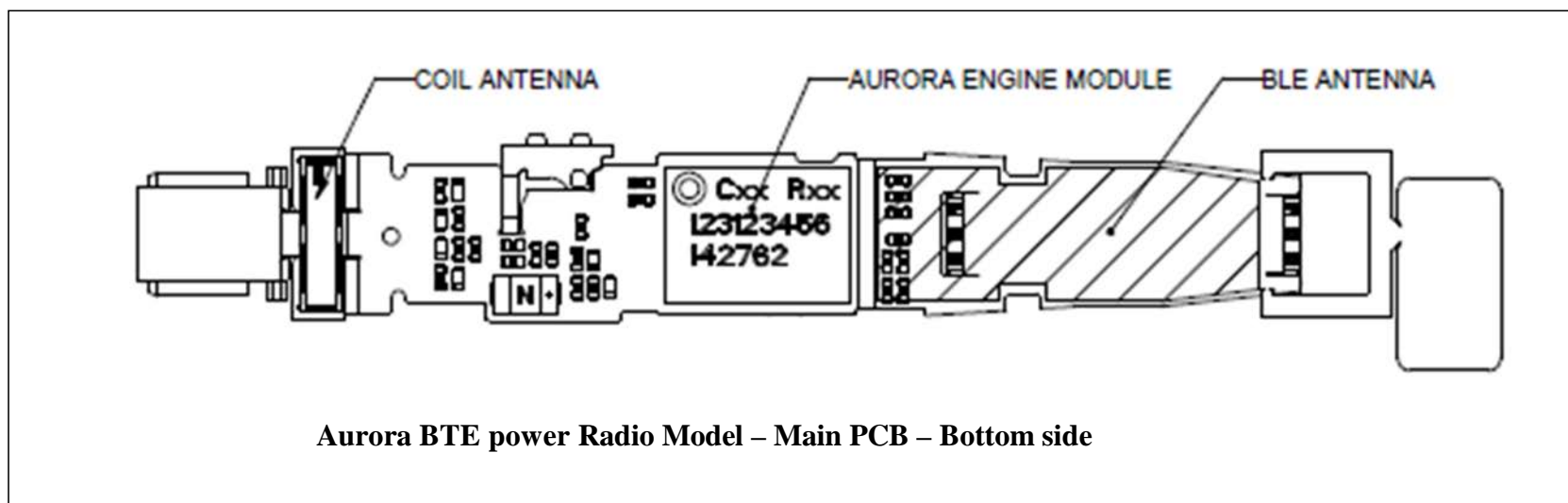
The most important part of the radio model is the Engine Module mounted on the main flex PCB, which connects it to the EEPROM memory, the telecoil and all external connections: On the top side these are the external connector for programming purposes, the microphones, the battery terminals and the push buttons.

Oticon Radio Model - Quick Installation Guide

Radio Model Name: **Aurora BTE power**

The Aurora BTE power radio model requires only a single cell battery and an external speaker to be attached and plastic shells, defining the industrial design of a hearing aid end product and holding everything together, in order to be fully operational.

On the bottom side of the main PCB of the radio model the Aurora Engine Module, the BLE antenna and the coil antenna for the 3.84 MHz radio can be seen:



The most important parts inside the Engine module are a Digital-Signal-Processor (DSP), a radio Front-End (FE) chip for the 3.84 MHz radio part and an RF chip for the Bluetooth radio part – all mounted on a small rigid PCB again mounted on the main flex PCB. The Aurora BTE power radio model also includes all voltage regulators and buffered data programming inputs on board. The DSP is the main processor controlling the functionality of both radios in the radio model.

The Aurora BTE power radio model is intended to be installed in Oticon, Bernafon, Sonic and affiliated wireless hearing aid devices of the BTE power (Behind-The-Ear power and power plus) wearing style(s).