SBO Remote Control Radio Model - Quick Installation Guide

Radio Model Name: RCRM

The RCRM is a module intended for Remote Control devices. It is equipped with a micro processer host and a short range low power radio system including a PCB loop antenna on board at the same printed circuit board (PCB).
Besides the host and the radio system the module also includes a power management circuit, battery connector, 3 switches, and small discrete components.

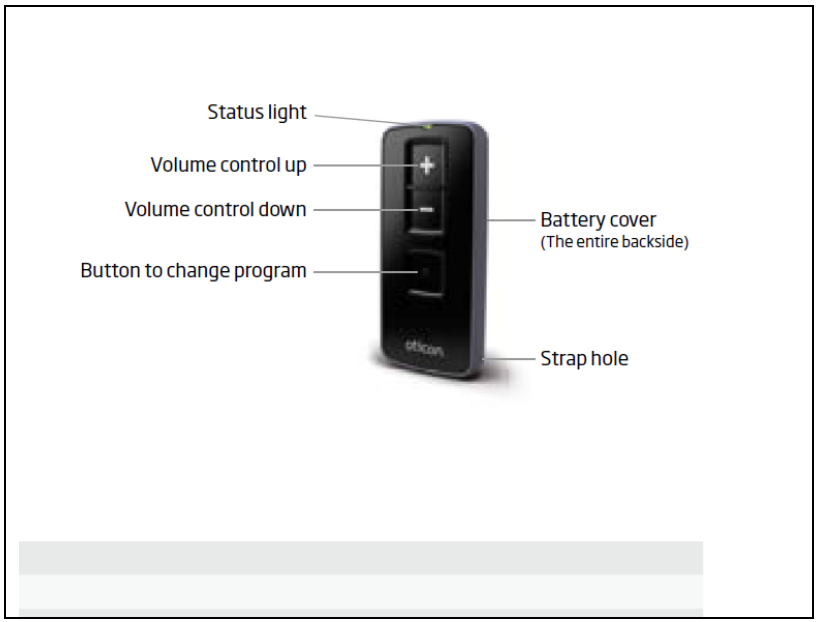
When the RCRM is mounted inside the plastic shells of a remote control device, then the whole product shall normally be hand held or placed on a table, when the user has one or two wireless hearing aids on the ears, also running at a radio frequency of 3.84 MHz.

The radio system inside the module is a low power, inductive radio transmitter working at 3.84 MHz and consisting of (see illustrations next page):

- A TX circuit and
- A 7.68 MHz crystal

The low power, inductive radio transmitter is consisting of an “AND” and an “XOR” gate making the modulation fed with data from the host, a clock oscillator and two switching transistors feeding the modulated RF signal at 3.84MHz to the PCB loop antenna.

The module mounted inside a plastic shell is shown to the right:



NB: The RCRM is intended ONLY for SBO Hearing and OEM branded products intended for remote control of hearing aids at 3.84 MHz. If used for other types of products or systems, SBO Hearing cannot guarantee continued conformance with FCC part 15 regulations. Because of this and due to limited shielding of the module, the RCRM is approved only with a *limited* modular approval.

SBO Remote Control Radio Model - Quick Installation Guide

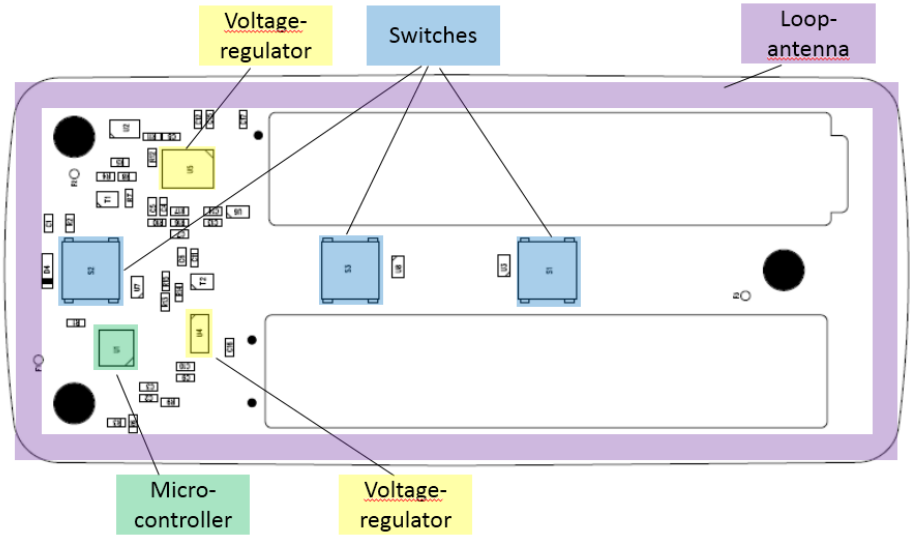
Radio Model Name: RCRM

The RCRM with all its mounted components is intended to be installed as a module into SBO Hearing Remote Control devices, (e.g. the Oticon RC-2A) or similar OEM branded products (like Bernafon).

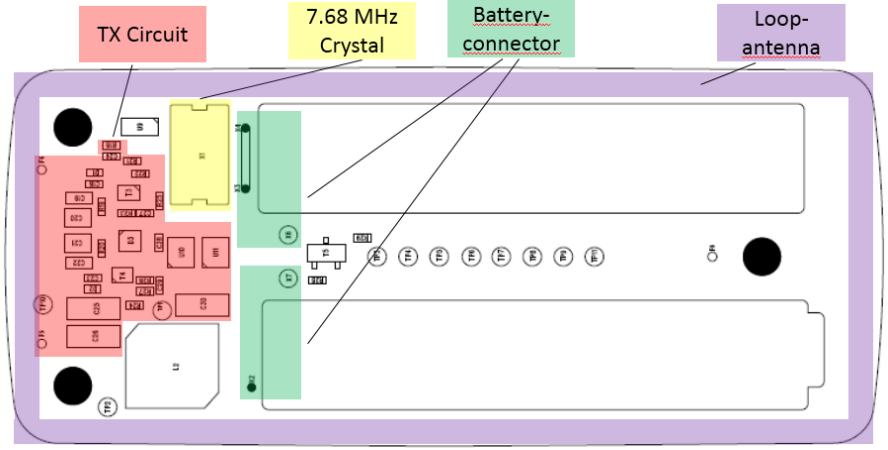
The module requires two AAAA batteries to be mounted in an external plastic shell (as shown on the previous page). Key presses are wirelessly transmitted to connected devices (e.g. Oticons wireless hearing aids).

The module has both its voltage regulators on board.

The module PCB is depicted to the right with its main components and connections:



WLP Special Radio Module PCB (Top side)



WLP Special Radio Module PCB (Bottom side)

Oticon Radio Model - Regulatory Label Information

Radio Model Name: RCRM

Contains: **FCC ID:** **2ACAHREMCTR01**
IC ID: **11936A-REMCTR01**

NOTICE:
This device complies with Part 15 of the FCC Rules and with the license exempt standard RSS-210 of Industry Canada.

Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by SBO Hearing A/S may void the FCC authorization to operate this equipment.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.