

## Oticon Radio Model - Quick Installation Guide

### Radio Model Name: WLP Special

The WLP Special Radio Module is a module intended for WireLess Programming devices (WLPs) and completely equipped with both a microprocessor host and a short range low power radio system on board the same Printed-Circuit-Board (PCB). Besides the host and the radio system the module also includes a power management circuit, EEPROM memory, USB connector, battery connector, two neck loop connectors and small discrete components.

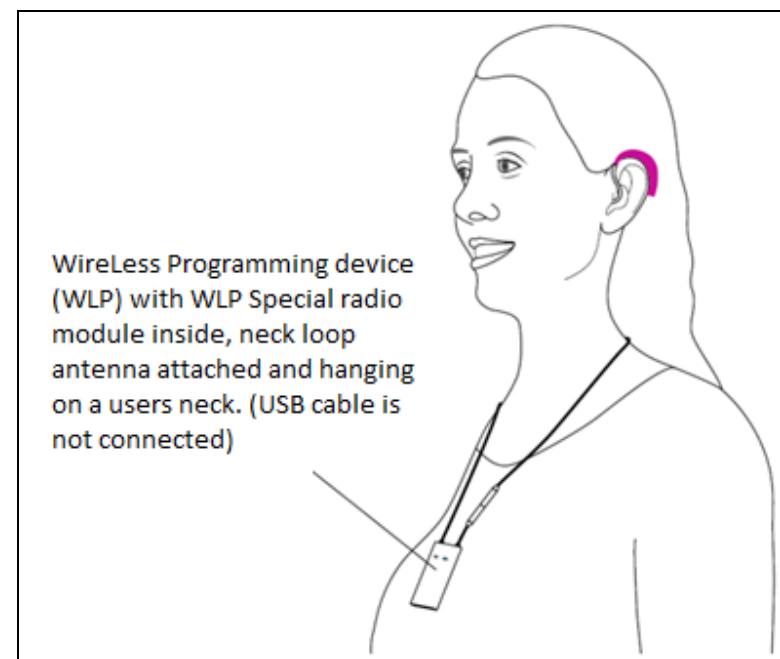
When the WLP Special radio module is mounted inside plastic shells for a wireless programming device with a neck loop antenna attached, then the whole product shall normally be placed on the neck of an end user with one or two wireless hearing aids on the ears, also running at a radio frequency of 3.84 MHz. The end product shall be operated by a trained hearing care professional via a PC with Oticon certified SW controlling the product through an USB cable.

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

- A radio transmitter controller
- A radio receiver circuit
- A frequency generating circuit and
- A 16 MHz crystal

The low power, inductive radio transmitter is consisting of a Complex Programmable Logic Device (CPLD) fed with data from the host, a clock oscillator and two switching transistors feeding the modulated RF signal at 3.84MHz to a dedicated neck loop antenna.

The module mounted inside a plastic shell and with its loop antenna attached is depicted to the right:



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

## Oticon Radio Model - Quick Installation Guide

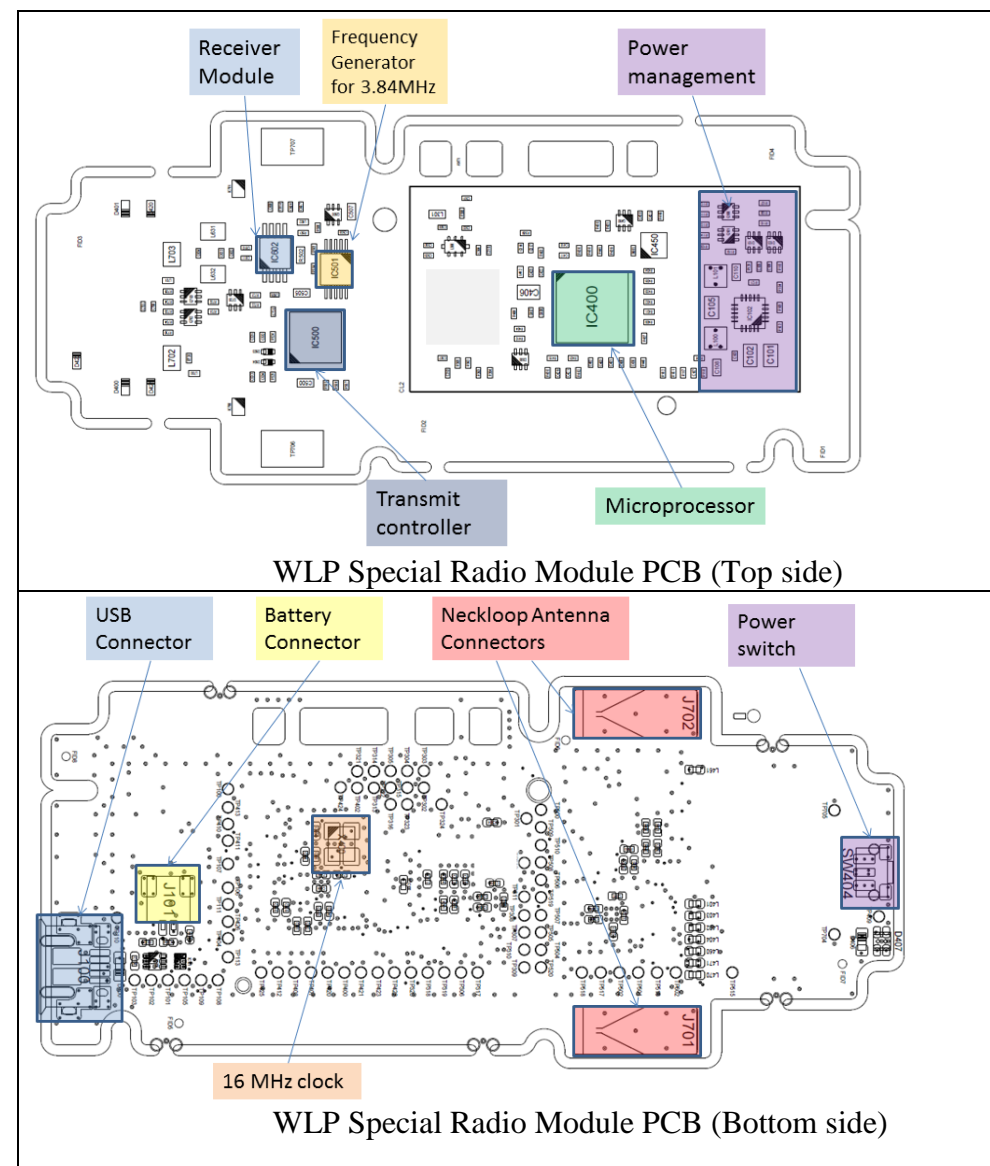
### Radio Model Name: WLP Special

The WLP Special Radio Module with all its mounted components is intended to be installed as a module into Oticons WireLess Programming devices (WLPs), (e.g. the FittingLINK WP-1) or similar OEM branded products (like Bernafon).

The module requires only a battery to be mounted together with its neck loop antenna in an external plastic shell (as shown on the previous page). The module requires no microphones or speakers as no sound only data is streamed wirelessly to connected devices (e.g. Oticons wireless hearing aids).

The module has its power management subsystem including all voltage regulators and the charging circuit on board. Also all data interfaces (input-output) on the board are buffered.

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



## **Oticon Radio Model - Regulatory Label Information**

**Radio Model Name: WLP Special**

**Contains: FCC ID: U28WLPS10**

### **NOTICE:**

This device complies with Part 15 of the FCC Rules (hereunder §15.107/207, §15.109/209 and §15.223).

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 Oticon A/S may void the FCC authorization to operate this equipment.