



**IP** Trade SA™

# WPTT transmitter Operational Description

IP Trade Wireless Push To Talk

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## I. Operational Description

The Wireless Push To Talk (WPTT) is a physical device composed of a WPTT Hand-held device (Transmitter) and a WPTT Base (Receiver).

This document only presents the operational description of the WPTT Hand-held device (Transmitter).

Although operational in continuous transmit mode for test and evaluation purposes, the device is designed for periodic operation on demand.

### A. WPTT Hand-held device (Transmitter)

The WPTT Hand-Held device is battery-operated (Internal Li-Po).

It is based on TI CC1111 RF SoC: TX/TX operations in the 900 MHz ISM band, with an internal Antenna.

The RF design (Chip and Antenna) is based on the CC1111 USB Dongle Reference Design from TI. This reference design has been FCC approved under ID "ZAT1111USB900".

The RF Characteristics of the transceiver are:

- Data Rate : 249.756 kBaud
- TX output Power: configured to +10dBm
- Modulation : GFSK
- Deviation: 128.906250 kHz
- Channel Spacing: 199.951172 kHz
- Carrier frequency: between 902 and 928 MHz (default: 905.998901 MHz)

The transmitter's interfaces are:

- 1 button used as a trigger for transmission
- 2 Leds
- 1 Micro-USB interface used for configuration