

FRAUNHOFER INSTITUTE FOR INTEGRATED CIRCUITS IIS

RFicient[®]

ULTRA-LOW POWER WAKE-UP RECEIVER

APPLICATION NOTE AP006

Getting started with WakeUp EvalKit

Table of Contents

Getting started with WakeUp EvalKit.....	2
1. Introduction.....	2
2. WakeUp EvalKit Components.....	2
3. Steps to start	3

Getting started with WakeUp EvalKit

1. Introduction

The document contains a brief description of each component and the steps required to get the RFicient® WakeUp EvalKit power up and running. For better understanding, it is recommended to read app. notes “getting started with WakeUpEvalSuite” and “RFicient WakeUp EvalBoard” before startup.

2. WakeUp EvalKit Components

Typical components of the RFicient® WakeUp EvalKit are shown in Figure 1. This contains two Eval-Mainboards one for Tx (2) and one for Rx (1), two RF-Boards. RF-Board (3) equipped with RFicient® WakeUp Receiver and RF-Board (4) equipped with a transmitter IC and two antennas (6/7). Optionally, the kit can be supplied with a filter attachment (5).

Depending on the EvalKit, some RF-Boards may differ from the components are shown in Figure 1.

In addition, the kit includes a USB stick with the WakeUp Eval Suite software for control and two USB cables.



Figure 1: Eval-Kit Components

3. Steps to start

- Equip RF-Boards with antennas and attach them to the motherboard, RX RF-Board to RX Eval-Mainboard and TX RF-Board to TX Eval-Maiboard.
- connect both Eval-Mainboards to the USB interface of the PC
- make sure that both boards are ready and recognized by the Eval-Mainboard, read the instructions for the corresponding RF-Board
- run the WakeUpEvalSuite from the supplied USB-Stick