

SMD-inductor based antenna reference board for the M24LR04E-R Dual interface EEPROM

Data brief

Features

- Ready-to-use printed circuit board (PCB) including
 - 4.7 μH SMD inductor acting as an RF antenna
 - M24LR04E-R Dual Interface EEPROM
 - I²C connector
 - RF WIP/BUSY output with 20 k Ω pull-up resistor, to indicate that an RF operation is ongoing

Description

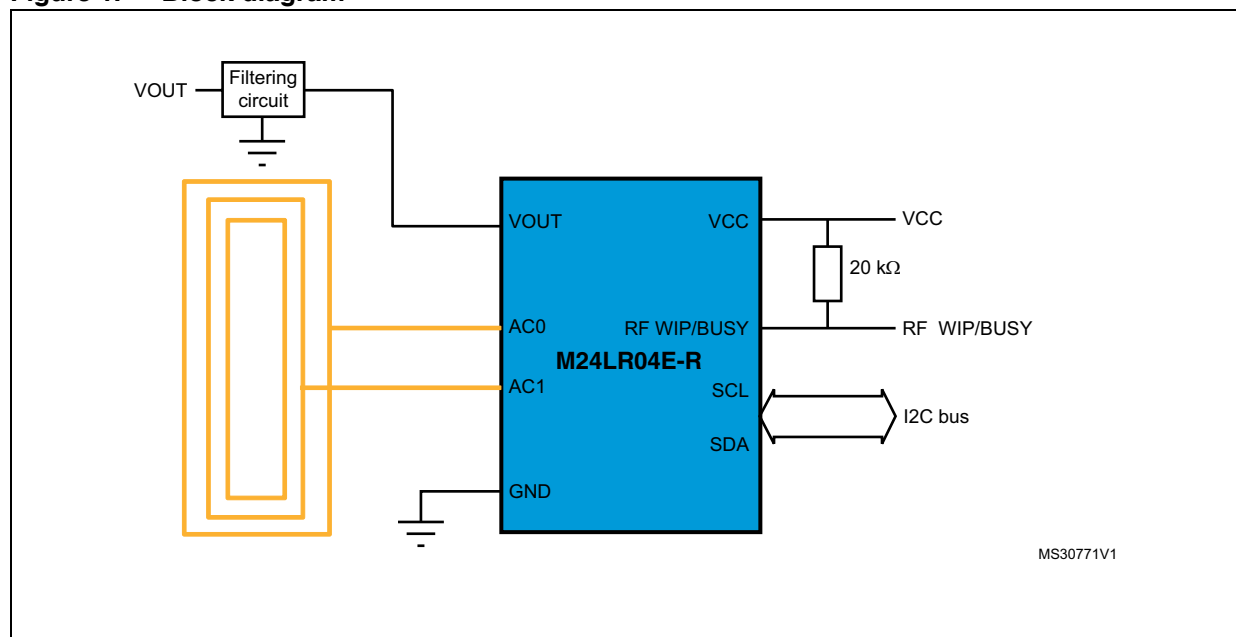
The ANT3-M24LR04E antenna reference board is a ready-to-use PCB that features an M24LR04E-R Dual Interface EEPROM IC connected to a 4.7 μH SMD inductor acting as an RF antenna on one side, and to an I²C bus on the other side.



The ANT3-M24LR04E antenna allows system designers to evaluate the M24LR04E-R performance and capabilities, and to get started with their design.

The ANT3-M24LR04E Gerber files can be downloaded from <http://www.st.com>.

Figure 1. Block diagram



Associated firmware and PC software

The ANT3-M24LR04E board is supported by a PC software, the Dual Interface EEPROM tool software, that allows to configure and control the energy harvesting. This software is available from <http://www.st.com>.

Refer to application note AN3954 “Developing your own Visual Basic or C/C++ application on a DEMO-CR95HF-A demonstration board”, for how to adapt the PC software for your application.

Revision history

Table 1. Document revision history

Date	Revision	Changes
22-Mar-2013	1	Initial release.

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