

FLEX-M24LR04E

Data brief

45 mm x 75 mm flexible antenna reference board for the M24LR04E-R Dual Interface EEPROM

Features

- Ready-to-use flexible printed circuit board (PCB) including
 - 45 mm x 75 mm 13.56 MHz inductive antenna etched on the PCB
 - 100 μm thickness PCB (Kapton)
 - M24LR04E-R Dual Interface EEPROM
 - Connection for I²C bus
 - Energy harvesting output (V_{OUT}) with a 10 nF capacitance filtering circuit
 - RF WIP/BUSY output with 20 kΩ pull-up resistor, to indicate that an RF operation is ongoing

Description

The FLEX-M24LR04E antenna reference board is a ready-to-use flexible PCB that features an M24LR04E Dual Interface EEPROM IC connected to a 45 mm x 75 mm 13.56 MHz etched RF antenna on one side, and to an I^2C bus on the other side.

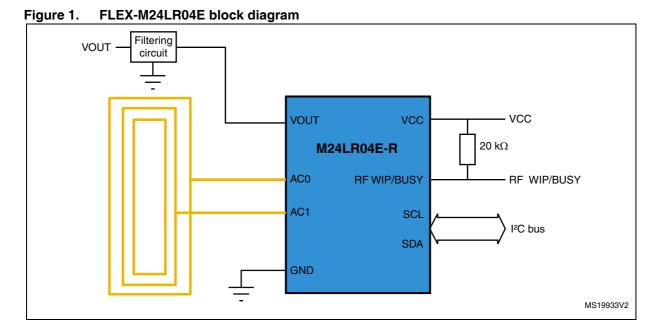


The FLEX-M24LR04E antenna allows system designers to evaluate the M24LR04E performance and capabilities, and to get started with their design.

To demonstrate the energy harvesting function, the FLEX-M24LR04E can be used in conjunction with ST DEMO-CR95HF-A demonstration board.

The application can be powered directly from the M24LR04E $V_{OUT}\,\text{pin}.$

The FLEX-M24LR04E Gerber files can be downloaded from www.st.com.



July 2012

Doc ID 023375 Rev 1

For further information contact your local STMicroelectronics sales office.

Associated firmware and PC software

The FLEX-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 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
2-Jul-2012	1	Initial release.



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