



This board assembly 'breaks out' the 5 x 7 pins of the eRIC RF Transceiver to a more convenient 2 x 12 x 0.1" pitch DIL pinout that matches commercial prototype breadboards. This allows the quick and easy testing and evaluation of eRIC modules for which these boards are intended.

The board is supplied with either an eRIC4 or eRIC9 module fitted together with a matching 434MHz or an 868/915 MHz antenna.

Pin	Function	Pin	Function
1	Carrier Detect	23	RF Gnd
2	Busy	22	GPIO
3	SDO	21	GPIO
4	SDI	20	GPIO
5	Host Ready	19	GPIO
6	Vcc - 3.3V	18	GPIO
7	0V Gnd	17	GPIO
8	JTag	16	GPIO
9	Reset	15	GPIO
10	GPIO	13	GPIO
11	GPIO	14	Frequency Select (eRIC9 only)
12	GPIO	GND	0V Gnd

Antenna connection is via an SMA Jack connector or alternatively the on-board eRIC UFL RF connector.

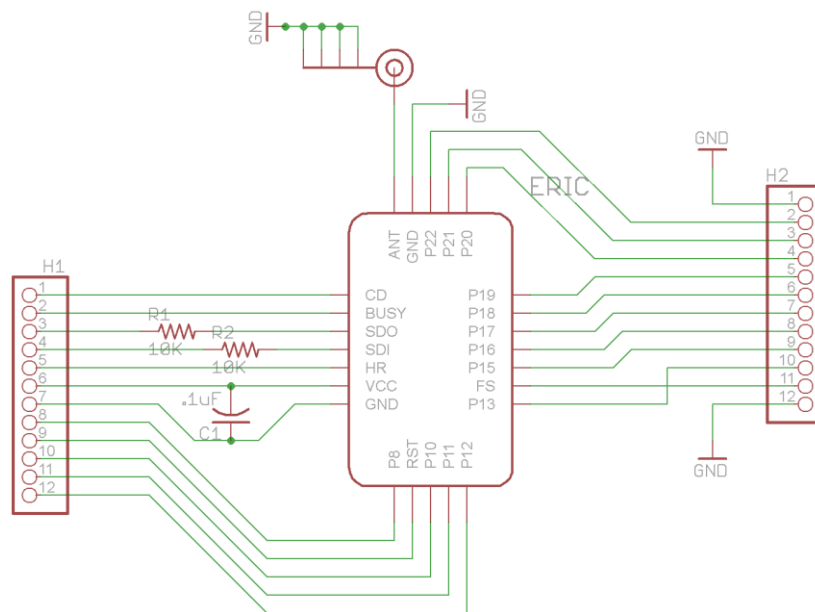
A supplied jumper optionally connects the eRIC Frequency Select Pin (14) to 0V Gnd setting the eRIC9 version module to a base operating frequency of 915MHz and restricting operation to meet FCC (USA) requirements.

Specifications

Temperature 20°C

Mechanical	Typical	Units	Notes
Size	67 x 20 x 5	mm	Excluding antenna connector
Pinout	12 x 2 DIL on 0.5" pitch		
Pin pitch	0.1	Inch	2.54mm

Schematic



Note the 10k series resistors fitted to the SDO & SDI pins. Other eRIC pins (configured as inputs) may need to be similarly protected if connected to external 5V logic level signals.

Acknowledgements

The design is 'Open Hardware' designed and published by Rick Winscot. Details: www.quilix.com

Product Order Codes

Name	Description	Frequency	Order Code
eRIC400 Breakout Board	UK/European Version (eRIC Can Marked '4')	433MHz	eRIC4-BOB
eRIC900 Breakout Board	Europe/US Version (eRIC Can Marked '9')	868/915MHz	eRIC9-BOB
Antenna	UK & Europe	433MHz	ANTSR433
Antenna	Europe & USA	868/915MHz	ANTST900

Document History

Issue	Date	Notes/Comments
V1.0	May 2015	This version

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