Data transmission

Ithallo J. A. Guimarães

This scheme works for sending data from an Attiny85 to another Arduino. It shows how to program an Attiny85 with an Arduino Nano, but any other Arduino could be used for that as an ISP.

There are codes for testing if your setup is correctly connected inside the *test_code* folder.

This Attiny85 to NRF24L01 setup leaves you with one pin free to use as you need, instead of no pin.

Enjoy it :)

Attiny85 programming

Must: >1 uF (usually 10uF) VCC (5V)—>RESET (Arduino Nano)

Attiny85	Arduino (Nano)
1 (RESET, PB5)	D10 (SS)
2 (PB3)	NC
3 (PB4)	NC
4 (GND)	GND
5 (MOSI, PB0)	5 (MOSI)
6 (MIS0, PB1)	D12 (MISO)
7 (SCK, PB2)	D13 (SCK)
8 (VCC)	5V/3V3

NRF24L01 to Arduino (Nano and Attiny85) connections

Suggested: Capacitor VCC—> GND

NRF24L01	Arduino (Nano)	Attiny85
VCC	3V3	VCC (3V3)
GND	GND	GND
CSN	7	3 (PB4)

NRF24L01	Arduino (Nano)	Attiny85
CE	8	1 (RESET, PB5)*
MOSI	D11 (MOSI)	6 (MIS0, PB1)**
SCK	D13 (SCK)	7 (SCK, PB2)
IRQ	NC	NC
MISO	D12 (MISO)	5 (MOSI, PB0)**

*1 (RESET, PB5) —> VCC.

** Yeah, that is right. Probably something with the library.

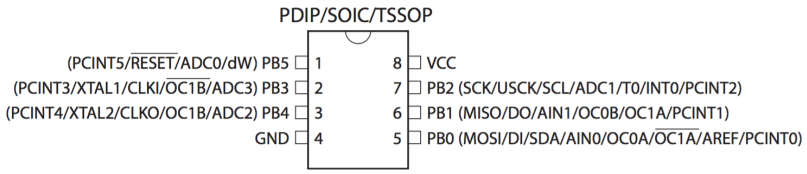

Figure 1: Attiny85 Pinout.

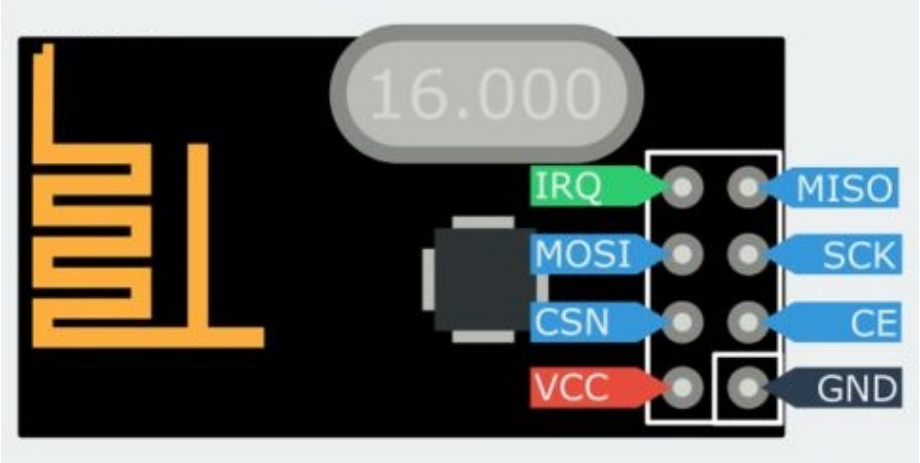

Figure 2: NRF24L01

Library

The library that was used here (and its documentation) can be found at http://tmrh20.github.io/RF24/.