PICAXE Community

Information
PICAXE Store
Cloud Programming
Support Forum

Welcome, **Iombric**   **Notifications**   **My Profile**   **Settings**   **Log Out**

| What's New? | Forum | Blogs | PICAXE.com | Free Software | BASIC Commands | Manuals | Buy Now | |

New Posts   Private Messages   FAQ   Calendar   Community   Forum Actions   Quick Links   Advanced Search

🏠 Forum   Main PICAXE Forum   Active PICAXE Forum   Code for receiving data from Nordic key FOB - SparkFun

+ Reply to Thread   Results 1 to 3 of 3

Thread: Code for receiving data from Nordic key FOB - SparkFun

Thread Tools   Search Thread   Rate This Thread   Display

30-10-2011, 01:46   #1

RonCzap ○

Member

Join Date: Sep 2011
Location: Louisville KY USA
Posts: 52

📄 **Code for receiving data from Nordic key FOB - SparkFun**

I have a Nordic RF transceiver module and a key FOB from SparkFun that I wanted to get working with a PICAXE 20M2.

I had some Basic Stamp code that I worked on a few months ago, so I just had to convert it.

I am attaching the code in case anyone might be interested.

Here is program output showing register values and detected button/count info

Code:
```
Initialized
Register 0 = 00111011
Register 1 = 00000000
Register 2 = 00000011
Register 3 = 00000011
Register 4 = 00000000
Register 5 = 00000010
Register 6 = 00000110
rxAddr P0:  231  231  231  231  231
txAddr:  231  231  231  231  231
```

The key FOB description

> This is a nicely packaged key FOB that contains a Nordic nRF24L01+ radio and a ATtiny24 for control. Press any one of 5 buttons and the ATtiny24 will wake up, transmit the buttons being pressed, a 16-bit integer value of the total button presses since last battery replacement, and then return to low-power sleep.

> ✎ Attached Files
>
> 📄 Nordic demo2.bas (12.7 KB, 71 views)

Last edited by RonCzap; 30-10-2011 at 01:51.

∞ Electronic projects page ∞

Blog this Post | **Reply** | **Reply With Quote** |

31-10-2011, 00:29   #2

RonCzap ◦

Member

Join Date:	Sep 2011
Location:	Louisville KY USA
Posts:	52

📄

I created another demo program which emulates the Sparkfun 5 button Key FOB.

It continously transmits the button codes and 16 bit sequential counter (as the FOB does).

I am attaching the transmit and receive (tweaked) programs…

📎 Attached Files

📄 Nordic demo.bas (13.3 KB, 51 views)
📄 Transmit.bas (14.8 KB, 48 views)

∞ Electronic projects page ∞

Blog this Post | Reply | Reply With Quote |

04-02-2014, 10:23 #3

ppp556 ○

New Member

Join Date: Feb 2014
Location: Česká republika
Posts: 1

📄

There is a bug in Transmit.bas.
"CE" should be LOW during transceiver configuration and data reading/writing.
"CE" should be HIGH when transceiver should actually send data via RF.

So this block:
LOW CE
PAUSE 1
HIGH CE
should be:
HIGH CE
PAUSE 1
LOW CE

Thank you for the samples, RonCzap!

Blog this Post | Reply | Reply With Quote |

+ Reply to Thread

Quick Navigation   Active PICAXE Forum | Top

« Previous Thread | Next Thread »

Tags for this Thread

None
View Tag Cloud

Add / Edit Tags

Bookmarks

Digg

del.icio.us

StumbleUpon

Google

Posting Permissions

You may post new threads	**BB code** is On
You may post replies	**Smilies** are On
You may post attachments	**[IMG]** code is On
You may edit your posts	**[VIDEO]** code is On
	HTML code is Off

Forum Rules

-- Picaxe Theme ▼   -- English (US) ▼   Contact Us   Main PICAXE Website   Archive   Top

All times are GMT +1. The time now is 07:37.

Powered by vBulletin® Version 4.2.2
Copyright © 2016 vBulletin Solutions, Inc. All rights reserved.

(c) Revolution Education Ltd 2007-15