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#!/usr/bin/env python

import sys
import time
from rflib import *
from struct import *

d = RfCat()

keyLen = 0
frequency = int(raw_input("What frequency should we transmit on? "))
baudRate= int(raw_input("What baud rate should we use? "))
key = str(raw_input("What key are we transmitting? "))

def ConfiguredD(d):
    d.setMdmModulation(MOD_ASK_00K)
    d.setFreq(frequency)
    d.makePktFLEN(keyLen)
    d.setMdmSyncMode(0)
    d.setMdmDRate(baudRate)
    d.setMaxPower()

print "Binary (NON PWM) key:",key
bin_str_key = str(key)
pwm_str_key = ""

for k in bin_str_key:
    x = "*"
    if (k == "0"):
        x = "011"
    if (k == "1"):
        x = "001"
    pwm_str_key = pwm_str_key + x
print "Binary (PWM) key:", pwm_str_key
dec_pwm_key = int(pwm_str_key,2)
key_packed = pack(">Q",dec_pwm_key)
key_packed = key_packed

keyLen = len(key_packed)

ConfiguredD(d)

print "TX'ing key..."
for i in range(0,40):
    d.RFxmmit(key_packed)
print "Done."
d.Dispose()

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