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/*
  LoRa Receiver

  Modified sketch from Tom Igoe, allows recipient to receive LoRa signal from a separate
  LoRa transmitter.  This sketch is used wiith Uno (not ATtiny).
  Implements a one-byte addressing scheme with 0xFF as the broadcast address and 0xB4 as the
  sync Word.

  Uses readString() from Stream class to read payload.

  Result:  Recipient receives "Alert!" signal from transmitter module.  Recipient's module
  will have LED flash ten times.  Transmitter module can reissue signal.
  on/off button to reset the transmitter module which also turns off the alert LED.
*/
#include <SPI.h>            // include libraries
#include <LoRa.h>

const int receiveLED = 5;    // Designates the terminal for the receiver LED
const int csPin = 7;         // LoRa radio chip select
const int resetPin = 6;      // LoRa radio reset
const int irqPin = 2;       // change for your board; must be a hardware interrupt pin

byte syncWord = 0xB4;       // Hexadecimal for sync word (network ID)
byte spreadingFactor = 7;    // spreading factor (6-12)
byte preambleLength = 13;   //  preamble length is 13
int x;                      // Creates integer for the LED repeat loop

void setup() {
```

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 Serial.begin(9600);
 LoRa.setPins(csPin,irqPin, resetPin);  //set CS, reset, IRQ pin
 LoRa.begin(915E6);           // initialize ratio at 915 MHz
 LoRa.setSyncWord(syncWord);
 LoRa.setSpreadingFactor(spreadingFactor);
 LoRa.setPreambleLength(preambleLength);
 LoRa.setTimeout(10);              // set Stream timeout 10 ms
 pinMode(receiveLED, OUTPUT);       // Tells ATtiny module that LED is an output
 LoRa.enableCrc();              // Enables Cyclic Redundancy Check
 }

void loop() {
 onReceive(LoRa.parsePacket());    //  LoRa module checks for incoming message
}

void onReceive(int packetSize){
 if (packetSize==0) return;      // Checks to see if a message is received
 int recipient=LoRa.read();      // Read packet and assign destination as recipient
 byte msgLength=LoRa.read();     // Read packet and assign length as msgLength
 if (recipient!=0xFF) return;    // Verify recipient code is 0xFF
 if (msgLength!=6) return;       // Verfiy message lenth is 6
 Serial.print("Message:  ");
 Serial.println(msgLength);
 Serial.print("RSSI:  ");
 Serial.println(LoRa.packetRssi());


 for (x=0;x<3;x++)           // Repeat following steps 10 times
 {
```

```
    digitalWrite(receiveLED,HIGH);  // Turn on LED
    delay(500);
    digitalWrite(receiveLED,LOW);   // Turn off LED
    delay(500);
  }
}
```