Erriez Oregon THN128 433MHz temperature sensor library for Arduino 1.0.0 Generated by Doxygen 1.8.13

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Oregon THN128 433MHz temperature sensor transmit/receive library for Arduino

This is a transmit/receive library Arduino library with the Oregon THN128 433MHz wireless protocol.

Tested on an Arduino UNO.

Protocol

Data

Example low power receive

```
#include <LowPower.h>
#include <ErriezOregonTHN128Receive.h>
// RF pin 2 (INTO) or pin 3 (INT1) defines
#define RF_RX_PIN
void printReceivedData(OregonTHN128Data_t *data)
    bool negativeTemperature = false;
    static uint32_t rxCount = 0;
    int16_t tempAbs;
    char msg[80];
    // Convert to absolute temperature
    tempAbs = data->temperature;
    if (tempAbs < 0) {
        negativeTemperature = true;
        tempAbs \star = -1;
    . snprintf(msg, sizeof(msg), "RX %lu: Rol: %d, Channel %d, Temp: %s%d.%d, Low batt: %d (0x%08lx)",
              rxCount++,
             data->rollingAddress, data->channel, (negativeTemperature ? "-" : ""), (tempAbs / 10), (tempAbs % 10), data->lowBattery,
              data->rawData);
    Serial.println(msg);
void setup()
    // Initialize serial port
    Serial.begin(115200);
    Serial.println(F("Oregon THN128 433MHz temperature receive"));
    // Turn LED on
    pinMode(LED_BUILTIN, OUTPUT);
```

```
digitalWrite(LED_BUILTIN, HIGH);
     // Initialize receiver
    OregonTHN128_RxBegin(RF_RX_PIN);
void loop()
     OregonTHN128Data_t data;
     // Check temperature received
     if (OregonTHN128_Available())
          digitalWrite(LED_BUILTIN, LOW);
          // Read temperature
          OregonTHN128_Read(&data);
          // Print received data
          printReceivedData(&data);
          // Wait ~30 seconds before receiving next temperature
          Serial.flush();
         LowPower.powerDown(SLEEP_8S, ADC_OFF, BOD_OFF);
LowPower.powerDown(SLEEP_8S, ADC_OFF, BOD_OFF);
LowPower.powerDown(SLEEP_8S, ADC_OFF, BOD_OFF);
LowPower.powerDown(SLEEP_2S, ADC_OFF, BOD_OFF);
          digitalWrite(LED_BUILTIN, HIGH);
          // Enable receive
          OregonTHN128_RxEnable();
```

Example low power transmit

```
#include <LowPower.h>
#include <ErriezOregonTHN128Transmit.h>
// Pin defines
#define RF_TX_PIN
OregonTHN128Data_t data = {
    #ifdef __cplusplus
extern "C" {
#endif
// Function is called from library
void delay100ms()
    Serial.flush();
    digitalWrite(LED_BUILTIN, HIGH);
    LowPower.powerDown(SLEEP_60MS, ADC_OFF, BOD_OFF); digitalWrite(LED_BUILTIN, LOW); LowPower.powerDown(SLEEP_30MS, ADC_OFF, BOD_OFF);
#ifdef __cplusplus
#endif
void setup()
    // Initialize pins
OregonTHN128_TxBegin(RF_TX_PIN);
void loop()
    // Set temperature
    data.temperature = 123; //12.3°C
    // Send temperature
    OregonTHN128_Transmit(&data);
```

```
// Wait some time
// Wait ~30 seconds before sending next temperature
Serial.flush();
LowPower.powerDown(SLEEP_8S, ADC_OFF, BOD_OFF);
LowPower.powerDown(SLEEP_8S, ADC_OFF, BOD_OFF);
LowPower.powerDown(SLEEP_8S, ADC_OFF, BOD_OFF);
LowPower.powerDown(SLEEP_4S, ADC_OFF, BOD_OFF);
```

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Here are the classes, structs, unions and interfaces with brief descriptions:	
OregonTHN128Data_t	ç

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File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

src/ErriezOregonTHN128.c
Oregon THN128 433MHz temperature transmit/receive library for Arduino
src/ErriezOregonTHN128.h
src/ErriezOregonTHN128Receive.cpp
src/ErriezOregonTHN128Receive.h
src/ErriezOregonTHN128Transmit.c
Oregon THN128 433MHz temperature transmit library for Arduino
src/ErriezOregonTHN128Transmit.h
Oregon THN128 433MHz temperature transmit library for Arduino

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Class Documentation

4.1 OregonTHN128Data_t Struct Reference

Public Attributes

- uint32_t rawData
- uint8_t rollingAddress
- uint8_t channel
- int16_t temperature
- bool lowBattery

4.1.1 Detailed Description

Definition at line 61 of file ErriezOregonTHN128.h.

4.1.2 Member Data Documentation

4.1.2.1 channel

uint8_t OregonTHN128Data_t::channel

Channel

Definition at line 64 of file ErriezOregonTHN128.h.

10 Class Documentation

4.1.2.2 lowBattery

bool OregonTHN128Data_t::lowBattery

Low battery indication

Definition at line 66 of file ErriezOregonTHN128.h.

4.1.2.3 rawData

uint32_t OregonTHN128Data_t::rawData

Raw data

Definition at line 62 of file ErriezOregonTHN128.h.

4.1.2.4 rollingAddress

uint8_t OregonTHN128Data_t::rollingAddress

Rolling address

Definition at line 63 of file ErriezOregonTHN128.h.

4.1.2.5 temperature

int16_t OregonTHN128Data_t::temperature

Temperature

Definition at line 65 of file ErriezOregonTHN128.h.

The documentation for this struct was generated from the following file:

• src/ErriezOregonTHN128.h

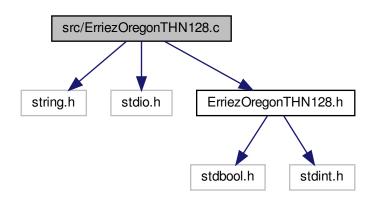
File Documentation

5.1 src/ErriezOregonTHN128.c File Reference

Oregon THN128 433MHz temperature transmit/receive library for Arduino.

```
#include <string.h>
#include <stdio.h>
#include "ErriezOregonTHN128.h"
```

Include dependency graph for ErriezOregonTHN128.c:



Macros

- #define **SET_ROL_ADDR**(x) (((x) & 0x07) << 0)
- #define **GET_ROL_ADDR**(x) (((x) & 0x07) << 0)
- #define **SET_CHANNEL**(x) ((((x) 1) & 0x03) << 6)
- #define **GET_CHANNEL**(x) ((((x) >> 6) & 0x03) + 1)
- #define SET_TEMP(x)
- #define **GET_TEMP**(x)
- #define **SIGN_BIT** (1UL << 21)
- #define LOW_BAT_BIT (1UL << 23)
- #define **SET_CRC**(x) ((uint32_t)(x) << 24)
- #define GET_CRC(x) ((x) >> 24)

Functions

- bool OregonTHN128_CheckCRC (uint32_t rawData)
 - Verify checksum.
- void OregonTHN128_TempToString (char *temperatureStr, uint8_t temperatureStrLen, int16_t temperature)

 *Convert temperature to string.
- uint32_t OregonTHN128_DataToRaw (OregonTHN128Data_t *data)

Convert data structure to 32-bit raw data.

• bool OregonTHN128_RawToData (uint32_t rawData, OregonTHN128Data_t *data)

Cnonvert 32-bit raw data to OregonTHN128Data_t structure.

5.1.1 Detailed Description

Oregon THN128 433MHz temperature transmit/receive library for Arduino.

Source: https://github.com/Erriez/ErriezOregonTHN128 Documentation: https://erriez.←github.io/ErriezOregonTHN128

5.1.2 Macro Definition Documentation

5.1.2.1 **GET_TEMP**

```
#define GET_TEMP( x )
```

Value:

Definition at line 47 of file ErriezOregonTHN128.c.

5.1.2.2 SET_TEMP

```
#define SET_TEMP( x )
```

Value:

Definition at line 44 of file ErriezOregonTHN128.c.

5.1.3 Function Documentation

5.1.3.1 OregonTHN128_CheckCRC()

Verify checksum.

Parameters

rawData	32-bit raw data input	
---------	-----------------------	--

Returns

true: Success, false: error

Definition at line 86 of file ErriezOregonTHN128.c.

5.1.3.2 OregonTHN128_DataToRaw()

Convert data structure to 32-bit raw data.

Parameters

data	Input
------	-------

Returns

Output

Definition at line 126 of file ErriezOregonTHN128.c.

5.1.3.3 OregonTHN128_RawToData()

Cnonvert 32-bit raw data to OregonTHN128Data_t structure.

Parameters

rawData	32-bit input				
data	output				

Returns

CRC true: Success, false: error

Definition at line 165 of file ErriezOregonTHN128.c.

5.1.3.4 OregonTHN128_TempToString()

Convert temperature to string.

Parameters

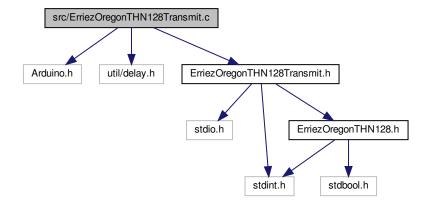
temperatureStr	Character buffer
temperatureStrLen	Size of character buffer
temperature	Input temperature

Definition at line 103 of file ErriezOregonTHN128.c.

5.2 src/ErriezOregonTHN128Transmit.c File Reference

Oregon THN128 433MHz temperature transmit library for Arduino.

```
#include <Arduino.h>
#include <util/delay.h>
#include "ErriezOregonTHN128Transmit.h"
Include dependency graph for ErriezOregonTHN128Transmit.c:
```



Macros

- #define RF_TX_PIN_INIT(rfTxPin)
- #define RF_TX_PIN_DISABLE()
- #define RF_TX_PIN_HIGH() { *portOutputRegister(_rfTxPort) |= _rfTxBit; }
- #define RF_TX_PIN_LOW() { *portOutputRegister(_rfTxPort) &= ~_rfTxBit; }

Functions

• void delay100ms (void)

Transmit sync pulse.

• void OregonTHN128_TxBegin (uint8_t rfTxPin)

Transmit begin.

void OregonTHN128_TxEnd (void)

Disable transmit.

void OregonTHN128_TxRawData (uint32_t rawData)

Transmit data

void OregonTHN128_Transmit (OregonTHN128Data_t *data)

Transmit Transmit data.

5.2.1 Detailed Description

Oregon THN128 433MHz temperature transmit library for Arduino.

```
Source: https://github.com/Erriez/ErriezOregonTHN128 Documentation: https://erriez.←github.io/ErriezOregonTHN128
```

5.2.2 Macro Definition Documentation

5.2.2.1 RF_TX_PIN_DISABLE

```
#define RF_TX_PIN_DISABLE( )
```

Value:

5.2.2.2 RF_TX_PIN_INIT

Value:

```
{
    _rfTxPort = digitalPinToPort(rfTxPin);
    _rfTxBit = digitalPinToBitMask(rfTxPin);
    *portModeRegister(_rfTxPort) |= _rfTxBit;
}
```

5.2.3 Function Documentation

5.2.3.1 OregonTHN128_Transmit()

Transmit Transmit data.

Parameters

data Oregon THN128 input structur	е
-----------------------------------	---

Definition at line 195 of file ErriezOregonTHN128Transmit.c.

5.2.3.2 OregonTHN128_TxBegin()

Transmit begin.

Parameters

rfTxPin Arduino trans	mit pin
-----------------------	---------

Definition at line 138 of file ErriezOregonTHN128Transmit.c.

5.2.3.3 OregonTHN128_TxEnd()

Disable transmit.

Set transmit pin to input

Definition at line 149 of file ErriezOregonTHN128Transmit.c.

5.2.3.4 OregonTHN128_TxRawData()

Transmit data.

Parameters

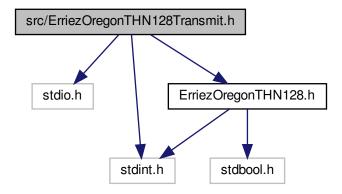
rawData 32-bit raw data input

Definition at line 160 of file ErriezOregonTHN128Transmit.c.

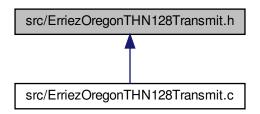
5.3 src/ErriezOregonTHN128Transmit.h File Reference

Oregon THN128 433MHz temperature transmit library for Arduino.

```
#include <stdio.h>
#include <stdint.h>
#include "ErriezOregonTHN128.h"
Include dependency graph for ErriezOregonTHN128Transmit.h:
```



This graph shows which files directly or indirectly include this file:



Functions

- void OregonTHN128_TxBegin (uint8_t rfTxPin)
- void OregonTHN128_TxRawData (uint32_t rawData)
 Transmit data.
- void OregonTHN128_Transmit (OregonTHN128Data_t *data)

Transmit Transmit data.

Transmit begin.

5.3.1 Detailed Description

Oregon THN128 433MHz temperature transmit library for Arduino.

Source: https://github.com/Erriez/ErriezOregonTHN128 Documentation: https://erriez. \leftarrow github.io/ErriezOregonTHN128

5.3.2 Function Documentation

5.3.2.1 OregonTHN128_Transmit()

Transmit Transmit data.

Parameters

```
data Oregon THN128 input structure
```

Definition at line 195 of file ErriezOregonTHN128Transmit.c.

5.3.2.2 OregonTHN128_TxBegin()

Transmit begin.

Parameters

```
rfTxPin Arduino transmit pin
```

Definition at line 138 of file ErriezOregonTHN128Transmit.c.

5.3.2.3 OregonTHN128_TxRawData()

Transmit data.

Parameters

rawData	32-bit raw data input
---------	-----------------------

Definition at line 160 of file ErriezOregonTHN128Transmit.c.

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