

tfk / WT588D Public

WT588D-library for Arduino

GPL-3.0 License

2 stars 2 forks

Star

Watch

Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

master

...

tfk ...

on 19 Mar 2017

[View code](#)

☰ README.md

WT588D

WT588D-library for Arduino using one-line mode.

This library has been tested with a [Arduino Micro](#) and a WT588D-U-32M module. By using the one-line mode you need to connect only 3 wires(RESET, SDA, BUSY) to the board instead 5 wires(RESET, SDA, BUSY, CS, CLK) when using the three-line mode. Both protocol-descriptions can be found in the [specification](#).

Configure the WT588D board

The [user-manual](#) describes the configuration and upload process in detail.

1. Convert existing soundfile

The board doesnt support arbitrary file-formats so you may need to convert your exisiting soundfile. Example: Using sox to convert the file in.wav to a 16 Bit (-b 16), 22kHz (-r 22k), mono (-c 1) out.wav-File.

```
sox "in.wav" -b 16 -r 22k -c 1 "out.wav"
```

2. Configure the board-settings

There are only two relevant setting, which are important to this library. First you need to enable one-line serial mode (see section 2.5.1 of the software-user-manual). Second you need to set busy-mode to LOW as the library has methods to wait for the busy-signal.

3. *Place the soundfiles to the desired equations*

4. *Compile settings and soundfiles*

A bin file with the settings and the sound-data will be created, that we will copy to the board in step 5.

5. *Transfer data to the soundboard*

See section 2.12 of the user-manual.

Installing the WT588D library

1. Start the Arduino IDE.
2. Goto Sketch > Include Library > Add .ZIP Library and select the WT588D.zip
3. An example is now available via File > Examples > WT588D > LoopSound. Or you can import via Sketch > Include Library > WT588D.

Releases 1



Packages

No packages published

Languages

● C++ 100.0%