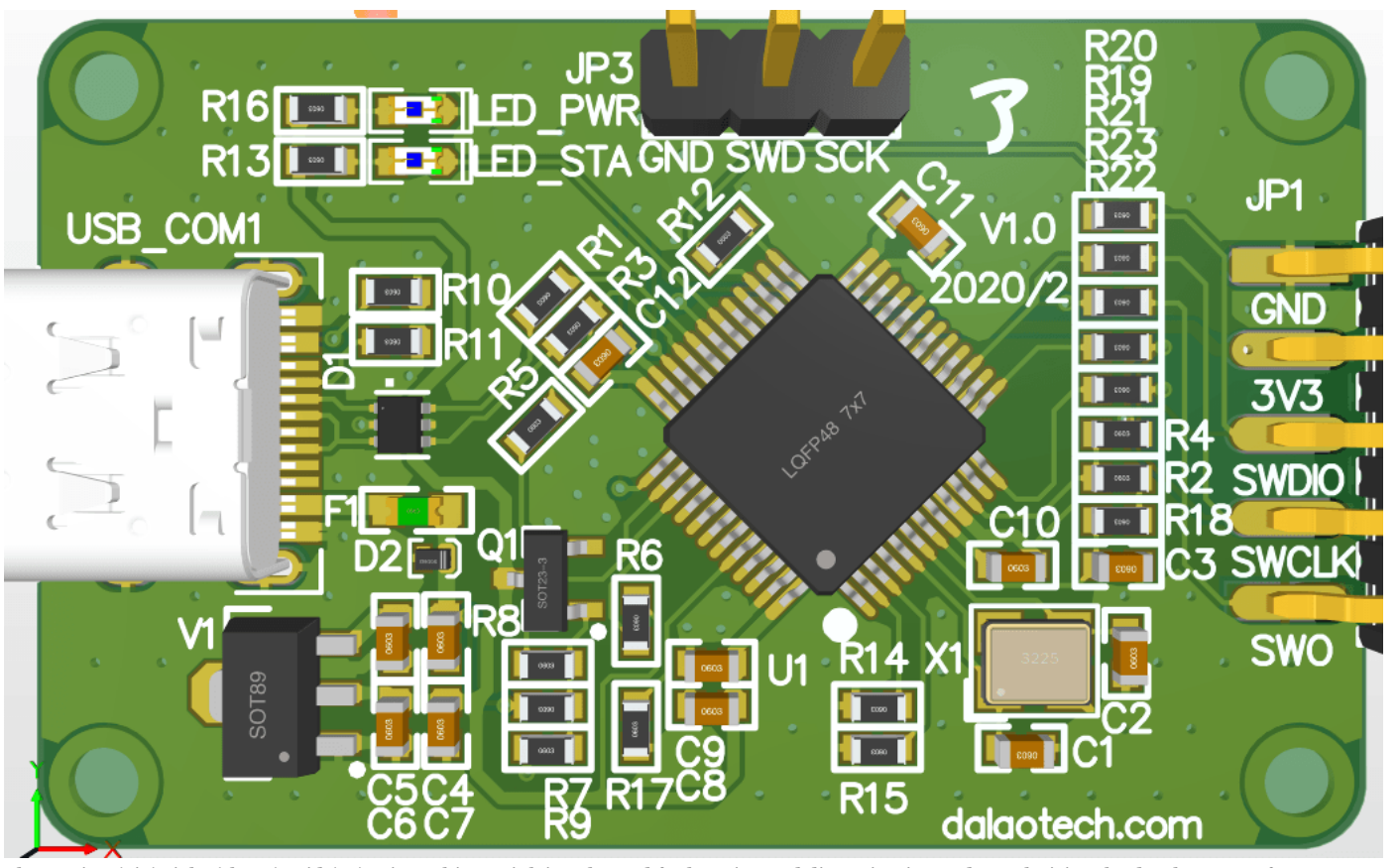
[OPEN SOURCE] HOMEMADE STLINK V2.1

2020-03-31 / UP FROM / 8 COMMENTS /



The version (qiu) right (sheng) said (yu) Ming: This STLink is only used for learning and disseminating and popularizing the development of STM32.

Schematic source: The schematic diagram of the Nucleo development board is sorted out.

V1.0@2020/2

Functions and features:

- Easy to use
  - Type-C interface
  - 40*25mm golden ratio appearance, mini size
- Features
  - VCP function, speed and stability spike CH340
- Safety
  - 500mA self-recovery fuse
  - Add TVS protection to power supply
  - USB D+D- add ESD diode protection

2020/04/09 update

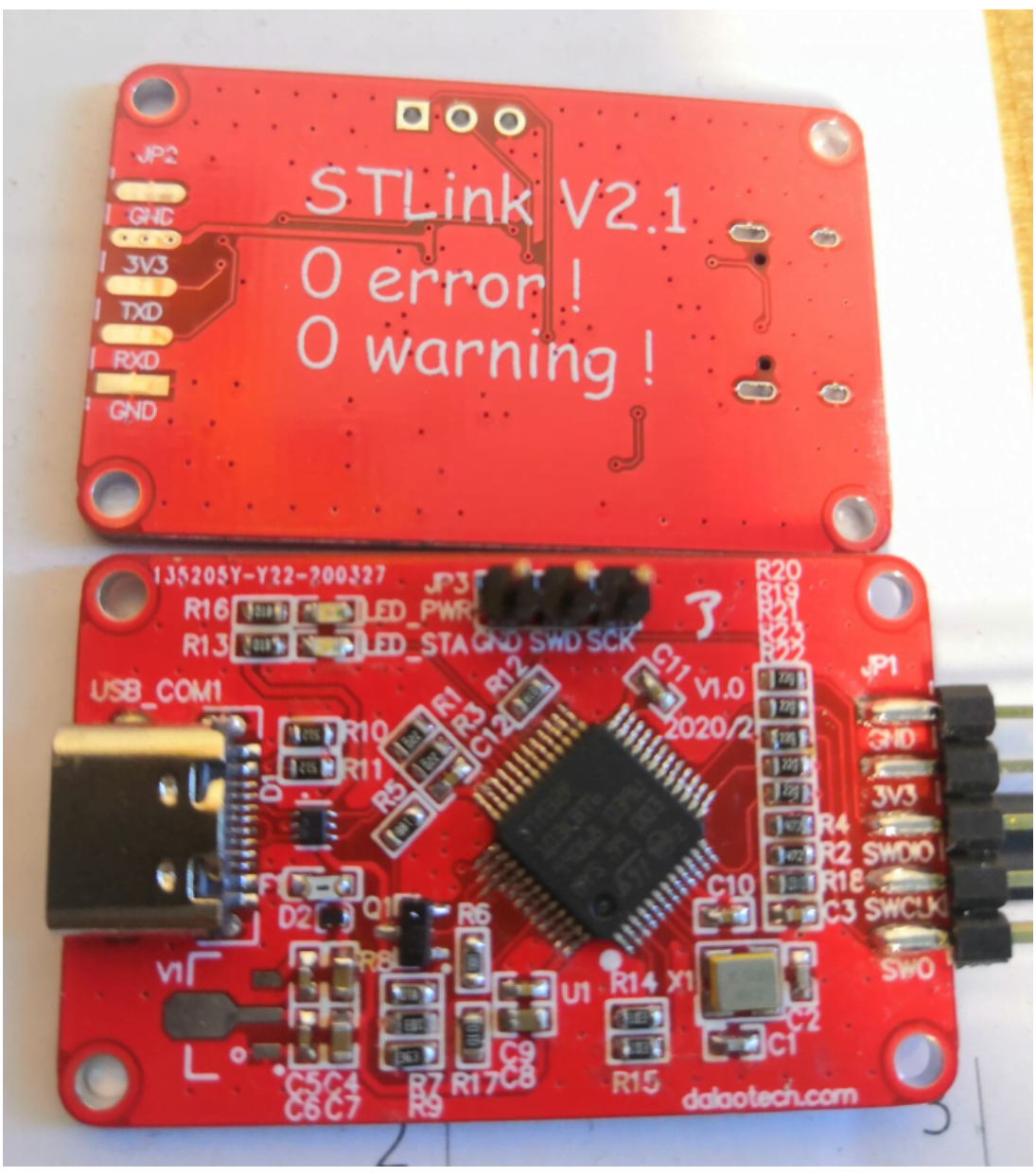
Various functions have been verified and are currently open source on GitHub:

https://github.com/sushisongren/DIY-STLink-V2.1

Schematic: See GitHub for details

PCB: See GitHub for details

Physical picture: (Because 1117 forgot to buy it, so there is no welding)



2020/05/31 update

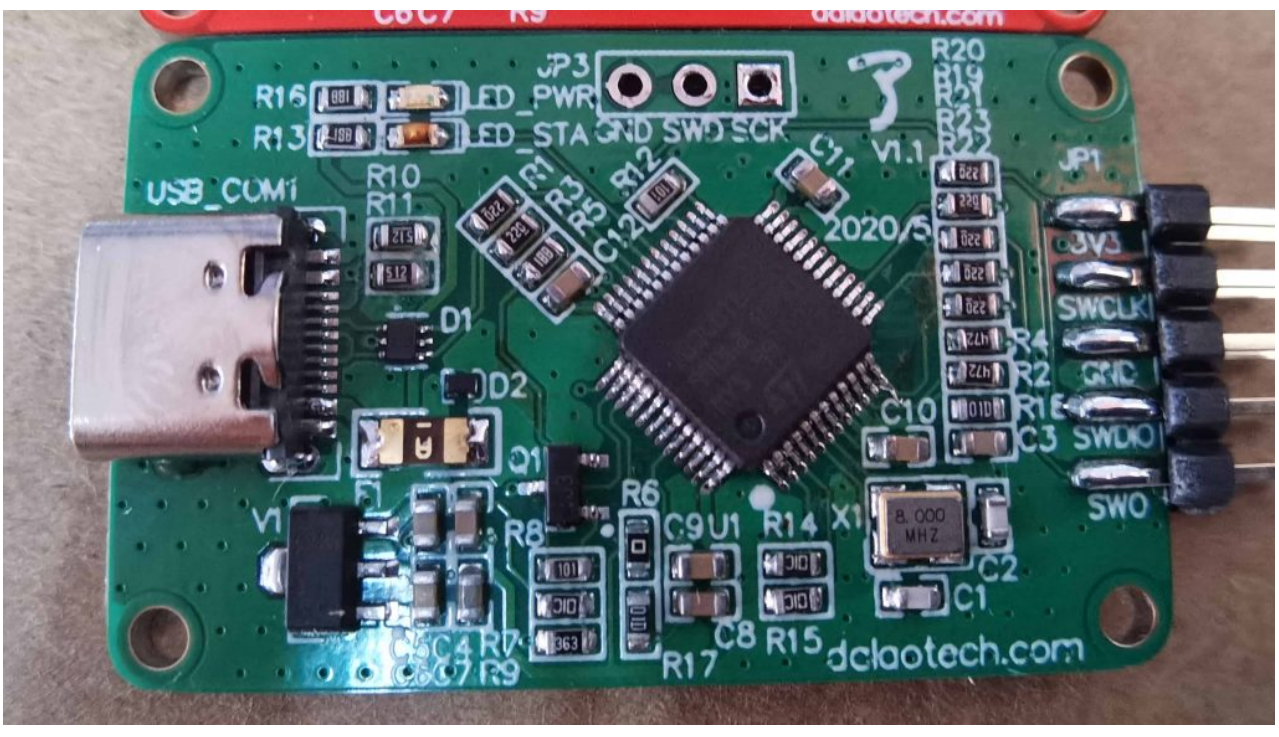
The pin layout has been changed to be compatible with the official STM32 arrangement, that is:

- 3V3
- SWCLK
- GND
- SWDIO

Unlike most of the boards' V, CLK, SWD, G, there are some compatibility issues, but the DuPont cable is more flexible after all, and this arrangement can prevent direct burnout and reduce interference to a certain extent.

In addition, it is replaced with a 1A fuse, plus the load capacity of CJ1117, which can drive the STM32 behind and reduce one data line.

Physical map:



2021/04/28 update

Update after a lapse of one year. For details, please see:

> **[开源]自制STLink V2.1——第二集**
>
> 去年自己做了一块STLink，广受好评，但是感觉还能有优化的空间，加上STM32 ... 继续阅读
>
> 了起的博 1